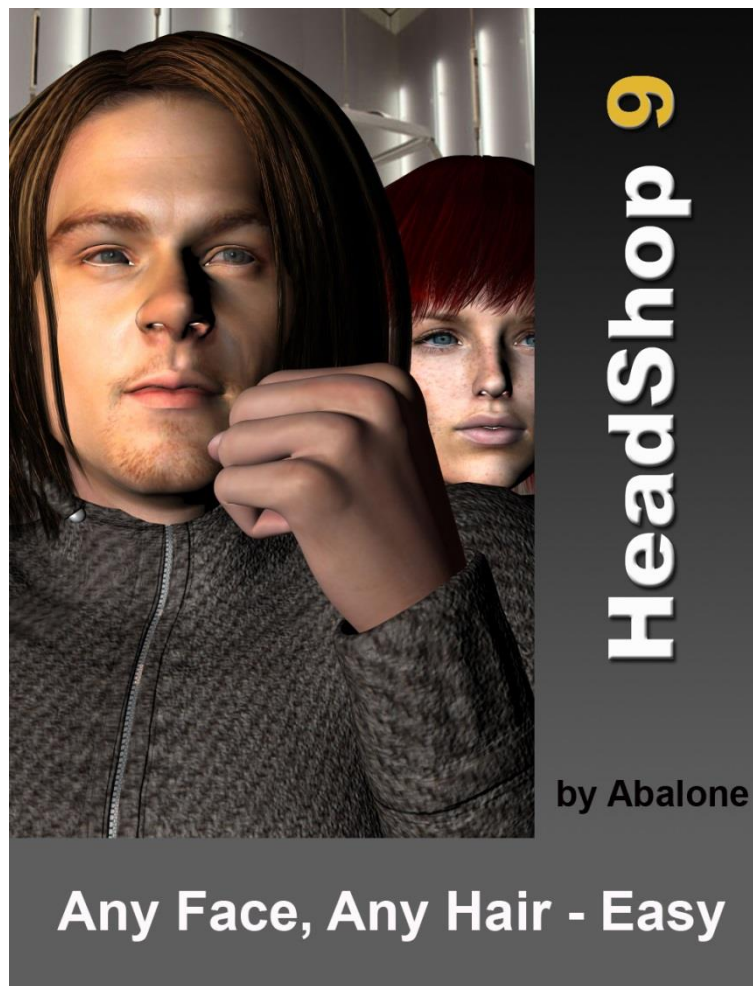


HeadShop 9

PC

User Manual

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Abalone LLC.

First edition

March 2015

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System requirements

Required hardware

WIN: HeadShop runs with the following minimal hardware:

A Windows-based personal computer or laptop with the following minimal requirements:

Screen of a resolution at least 1024x768

500 MB free disk space

Needed system software

HeadShop runs under the following system software:

Windows VISTA, W7 or W8 operating systems.

To read pdf manuals Adobe Acrobat is recommended

To watch "How-to" videos Windows Media player is recommended:

<http://abalonellc.com/watchdemovideo.html>

Abalone LLC offers tech support through email.
Email address is info@abalonellc.com

About the manual

Preface – What is New in HeadShop 9?

Chapter 1 – HeadShop QuickStart

Chapter 2 – HeadShop Menus and Tools

Chapter 3 – HeadShop Advanced Operations

Chapter 4 – Using HeadShop with Poser

Preface

HeadShop 9 is a software product used to create 3D heads from photographs. It can accommodate user at different skill levels, from beginners to advanced 3D users. It uses a number of advanced features, such as:

- a. **Automatic „Face-rotation” to rotate tilted portraits into the upright position**
- b. **Automatic recognition of eye and mouth features**
- c. **„Autodot” feature automatically adds dots to describe face shape, position and shape of eyes, mouth and nose.**

HeadShop 9 can be used for a number of applications:

1. **Create custom characters to be used within another 3D software such as DAZ Studio, Poser or Maya. 3D faces and morphs can be used with most softwares that can import OBJ formats.**
2. **„Age” characters like children to see how they will look like in a few years in the future.**
3. **HeadShop 3D heads can be also used to create 3D prints for non-commercial purposes. OBJ files can be sent to print shops that use the files to produce solid objects with 3D printers, either in single color or multi-color.**
4. **At the Stage tab of the applications users also can take „photos” of newly created characters with any number of imported backgrounds and use the saved JPG image with Photoshop or other image software.**

HeadShop can be installed as a „plugin” for DAZ Studio 4.7 or higher. Notice that HeadShop can be used both with 32-bit or 64-bit Studio (separate installations). More about installation in the Installation chapter or watch a „how-to” video about installation.

HeadShop 9 has an EZ mode to create Male, Female and Child heads based on DAZ Studio’s popular Genesis 2 series of characters. In addition, HeadShop can use any additional non-Genesis 2 character via the „Import OBJ” function. These characters from DAZ, Poser or Maya need to have a „head” bone to read correctly into HeadShop.

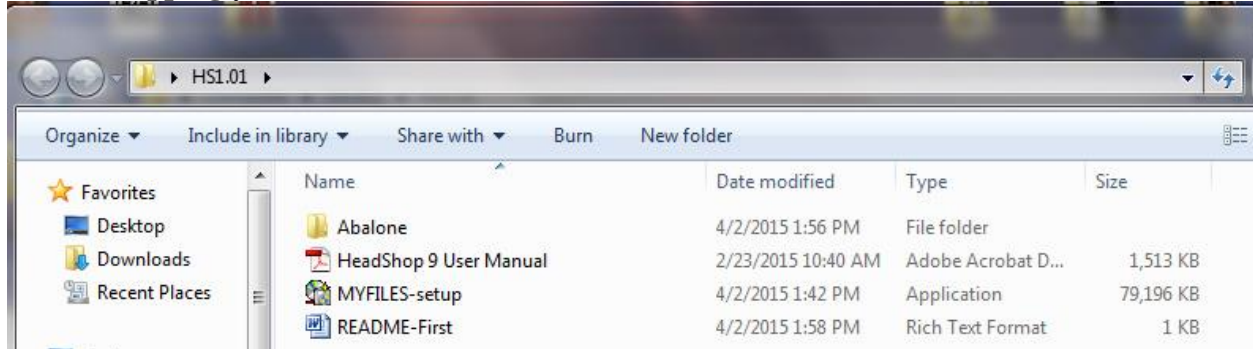
HeadShop 9 incorporates elements of another Abalone software; HairShop. Thus, the workflow is divided into 9 tabs, of which the first 3 tabs (Front, Profile and Features) are focused on 3D head creation, and the next 5 tabs (Style, Cut, Shape, Accessories and Color) on adding and modifying hair and accessories. The last tab, Stage, is to view and capture both face and hair, either for 2D photos or 3D printing.

Installation

HeadShop 9 installation (please note that this instruction pertains for copies that were bought through Abalonellc.com website. HeadShop 9 bought through DAZ may have a DAZ installer).

Download and unzip the HeadShop9.01.zip file from Abalonellc.com. (if you have difficulties downloading, see separate instructions about downloading at <http://abalonellc.com/headshop-9--coming-soon9.html>)

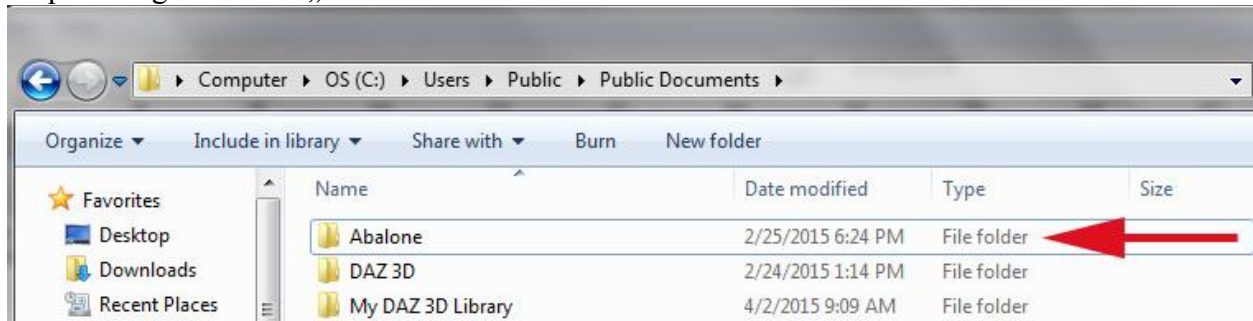
After unzipping you will see 4 files:



1. Abalone folder
2. HeadShop 9 User Manual
3. MYFILES-setup installer
4. README-First text file

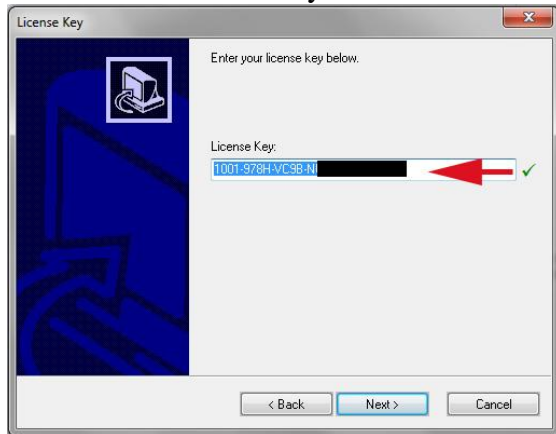
Please open README-First to see a copy of the following instructions.

Step 1. Drag the folder „Abalone” to Users/Public/Public Documents folder as shown.

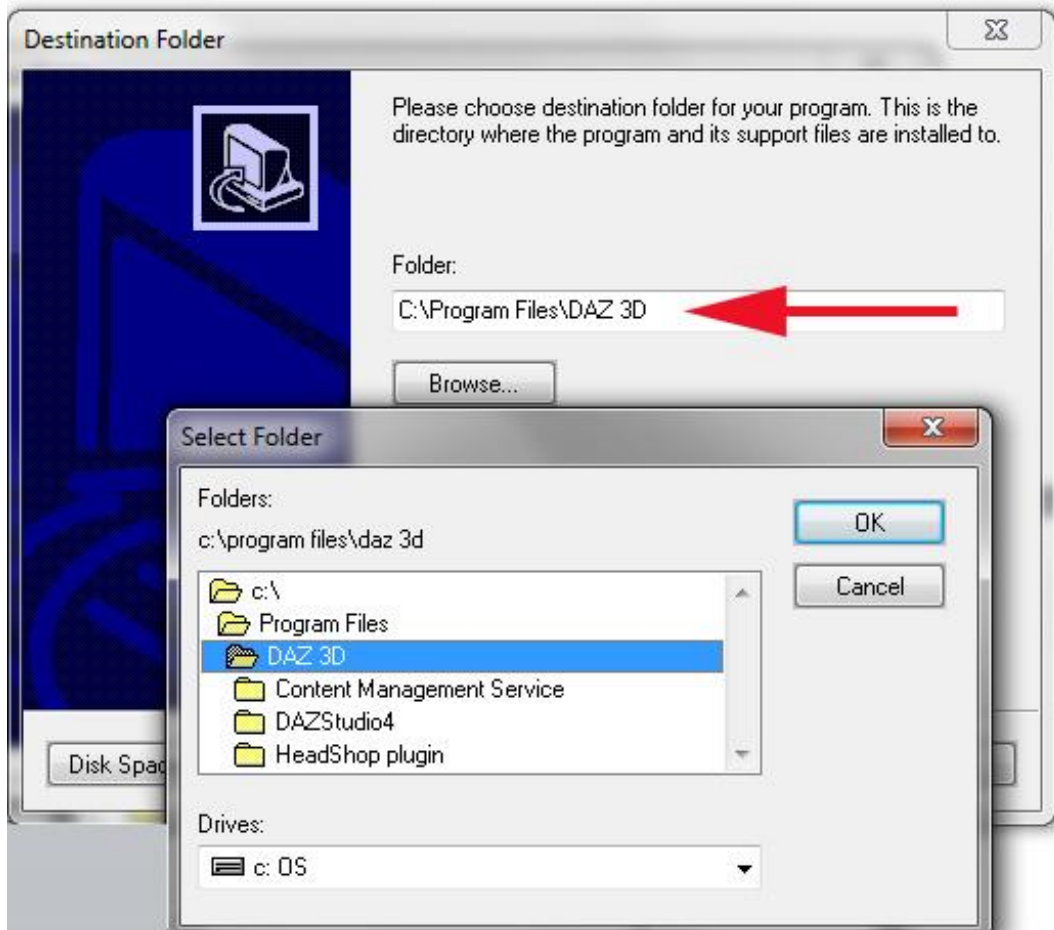


Step 2. Launch „MYFILES-setup” installer by double clicking on it.

- Enter license key if needed



- IMPORTANT!!! For destination folder browse/select „Program Files/DAZ 3D” as shown

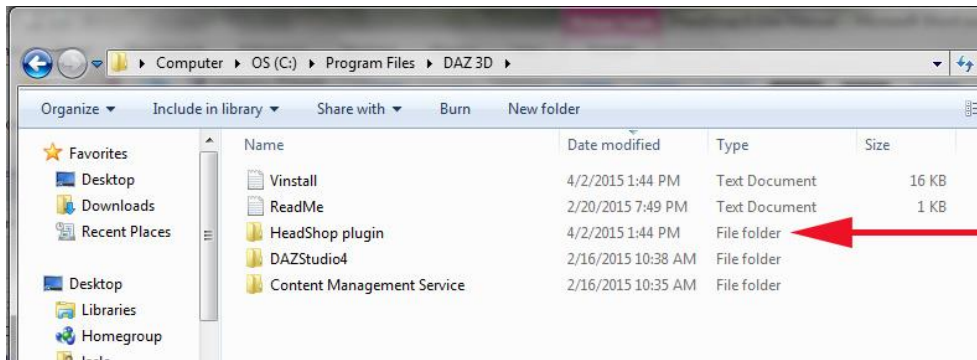


- Click OK. On next screen click „Install”.

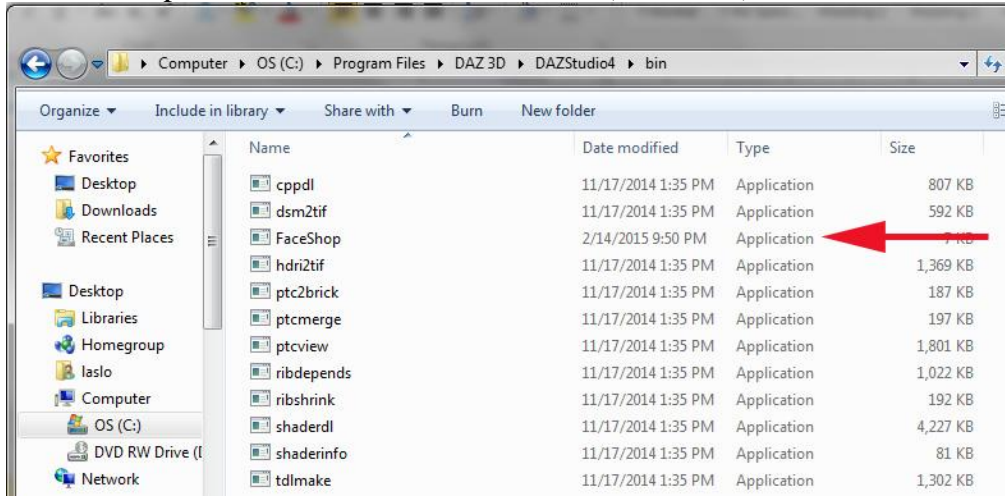
This will install many files in your Program Files/DAZ 3D folder.

A list of folders and files are here (you can double check to make sure it installed correctly)

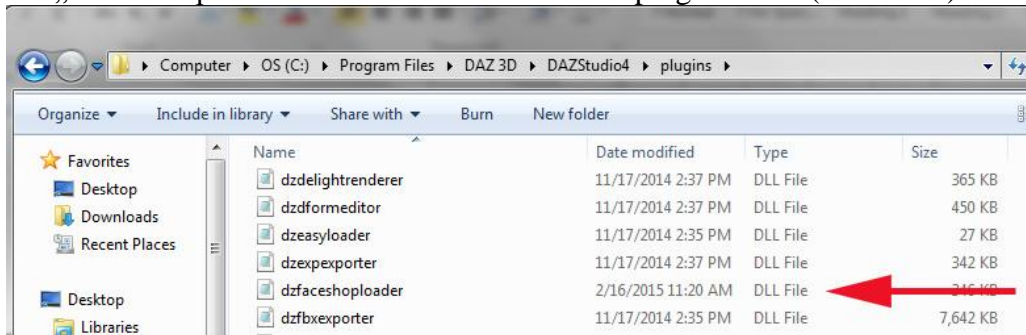
1. HeadShop plugin folder into the DAZ 3D folder (see below)



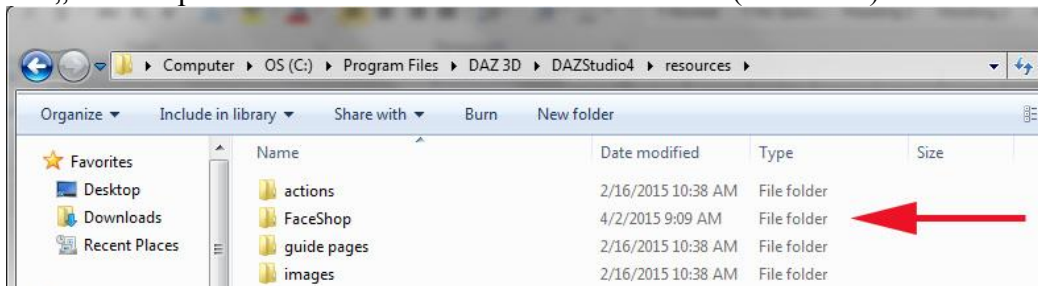
2. FaceShop file into DAZStudio4/bin folder (see below)



3. „dzfaceshoploader.dll” into the DAZStudio4/plugin folder (see below)



4. „FaceShop folder into DAZStudio4/resources folder (see below)

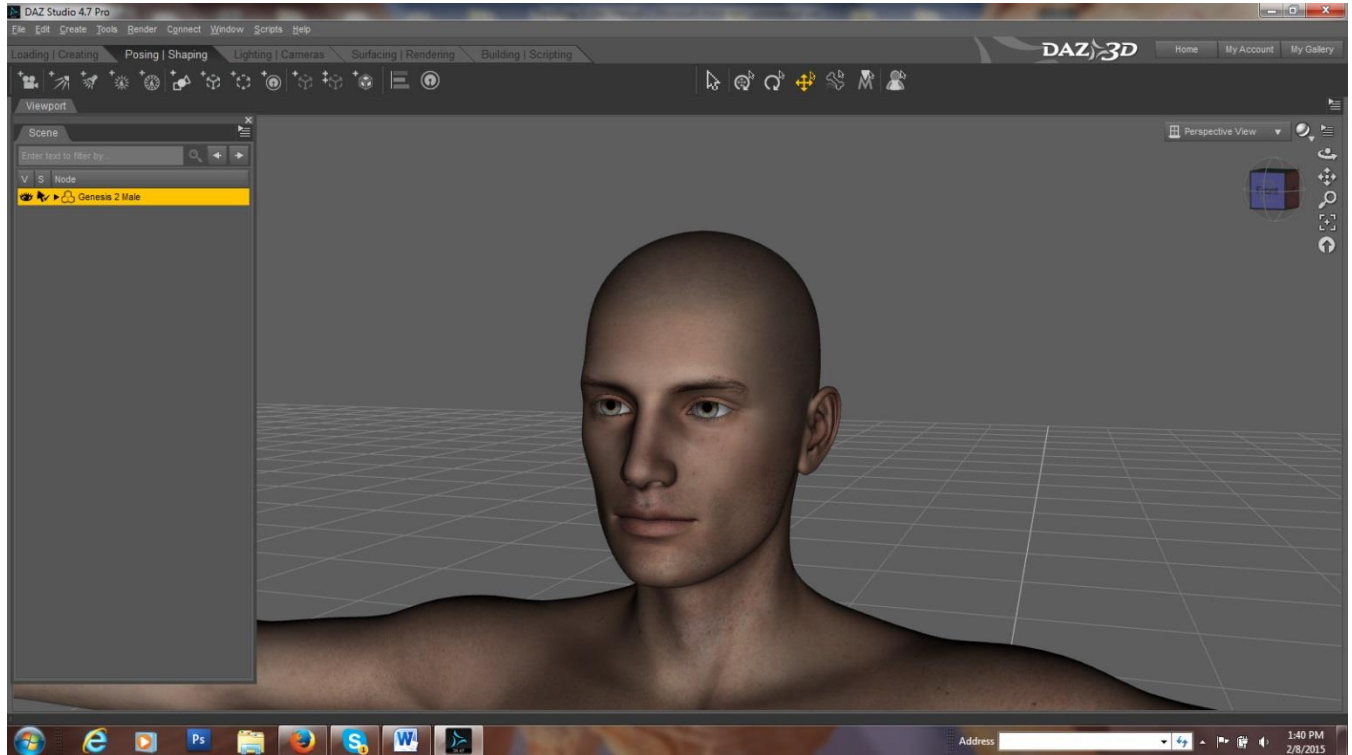


If you have all these in the right place, the application should show up as FaceShop under the DAZ Studio Edit menu.

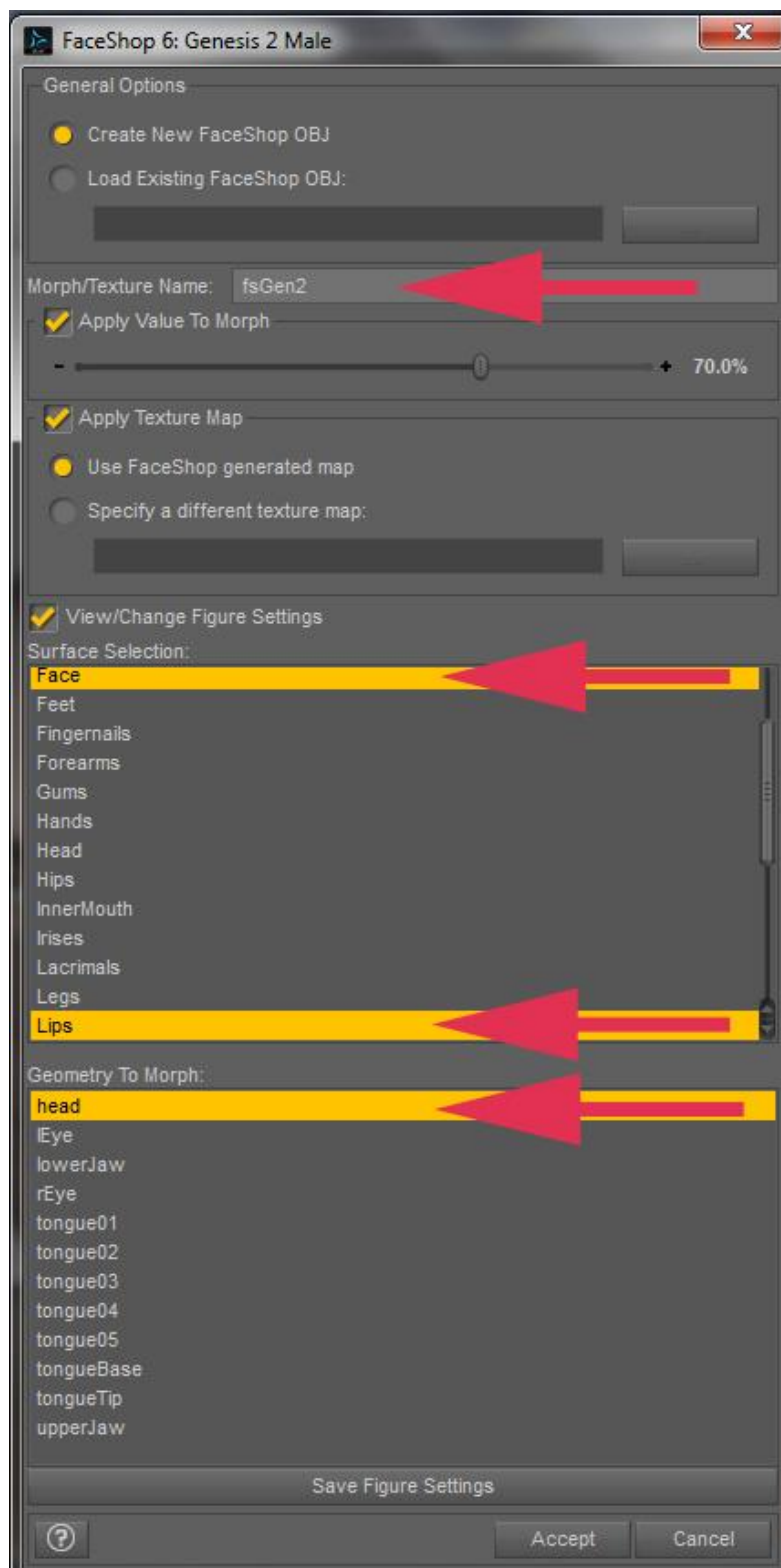
Chapter 1: QuickStart

In the following we discuss a QuickStart project that we recommend for inexperienced users. A more advanced example is in Chapter 3. We use the DAZ Studio plugin version to explain how HeadShop 9 is used with DAZ Studio.

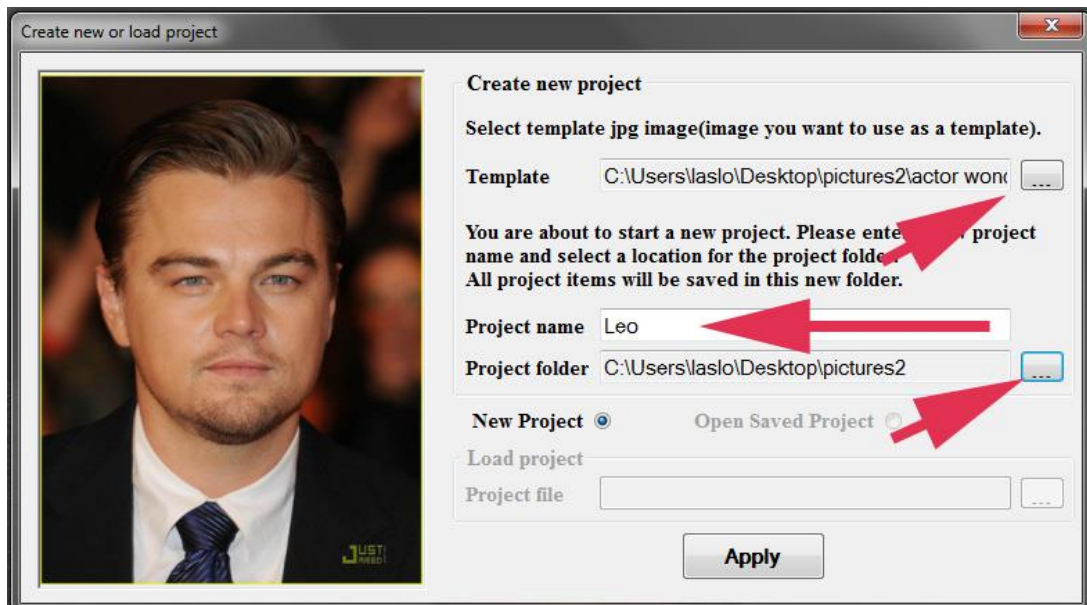
Step 1. Place a Genesis 2 character, such as Genesis 2 Male on stage as shown. Start HeadShop under the File menu.



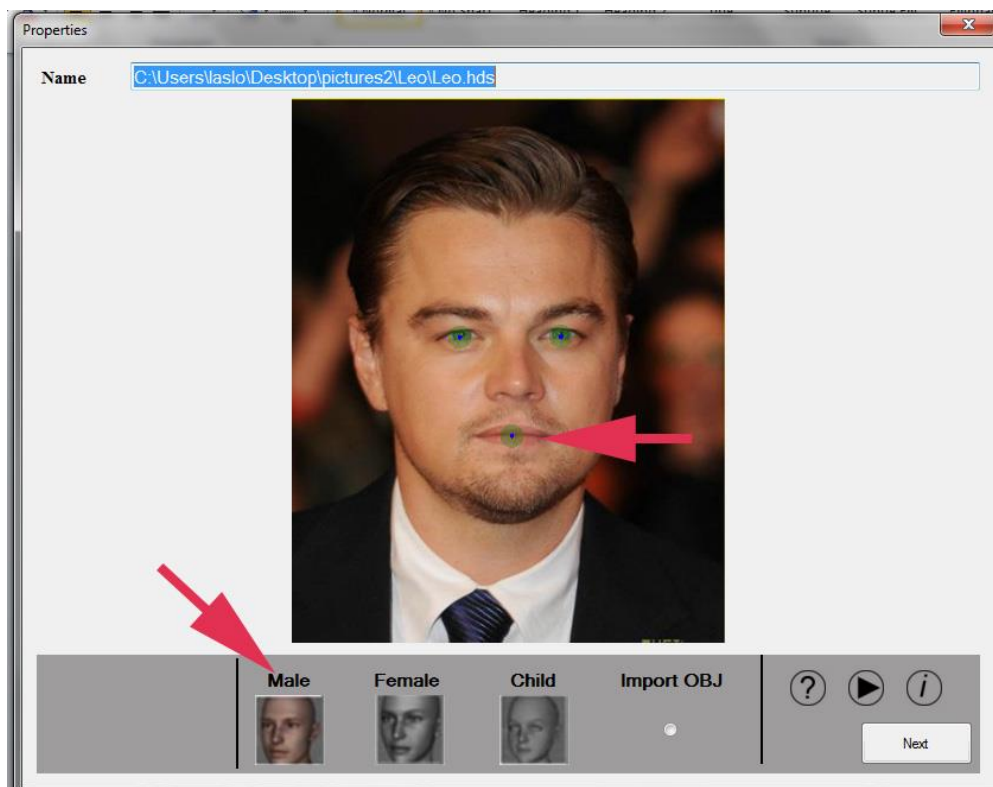
Step 2. When prompted, enter a Morph/Texture name, and highlight „Face” and „Lips” in the Surface Slection box, and „Head” in the „Geometry to Morph” box. Click „Accept”.



Step 3. When HeadShop launches, you will see a Selection dialog. Browse for a photo (JPG) to use. Enter a „Project name”. Browse for a location of your „Project folder”. HeadShop will save all your files in this folder. Click „Apply”.



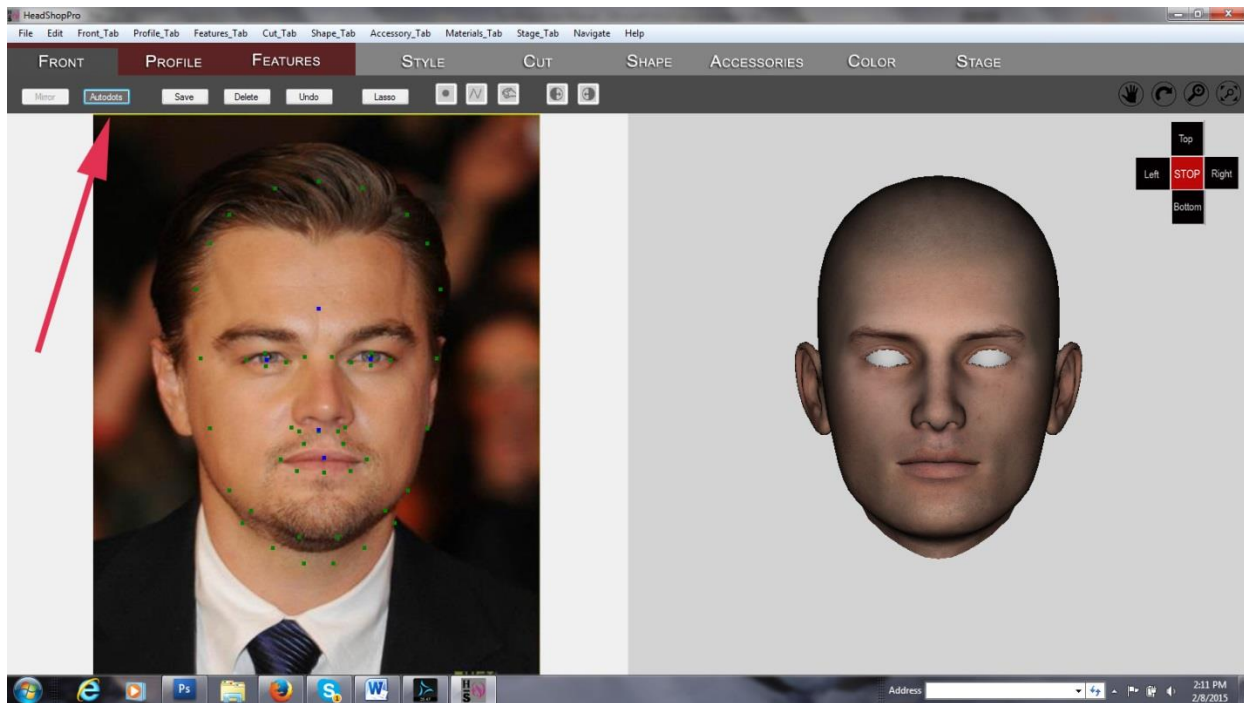
Step 4. In the next, „Set-up” dialog choose „Male”, and move any of the blue Autodots if needed. Click „Next”.



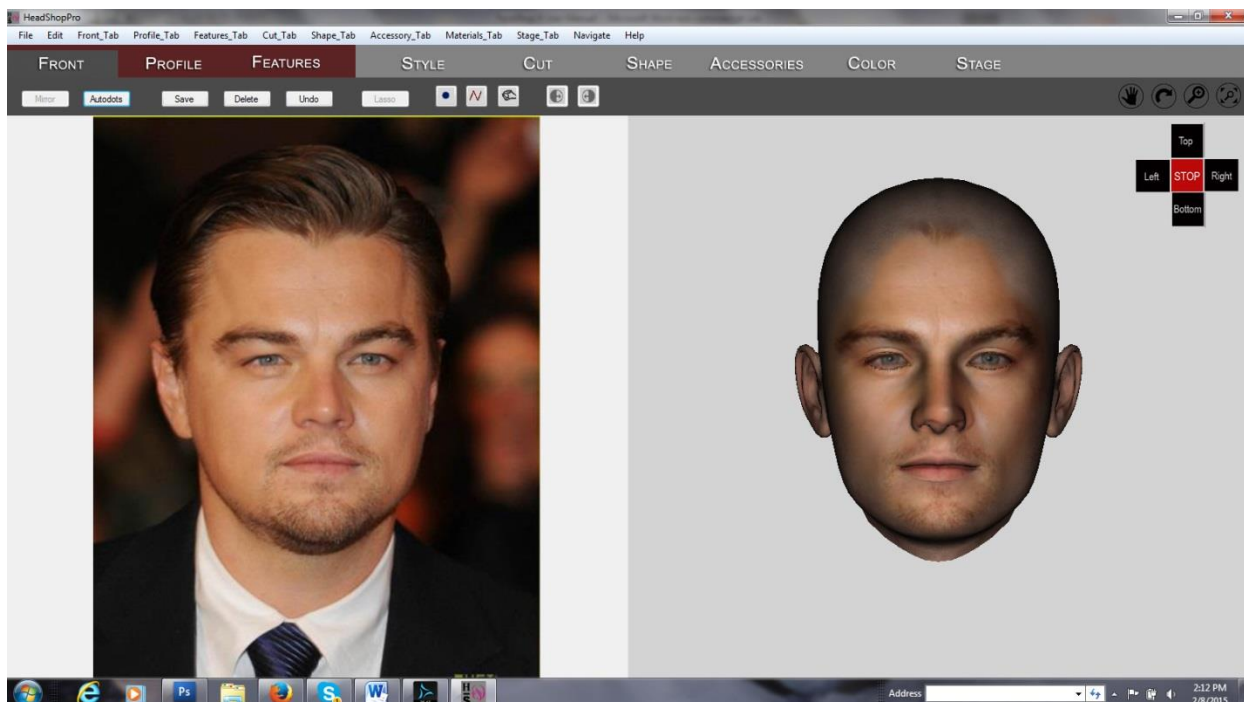
Step 5. Next screen is your working screen. The workflow is represented in the top 9 tabs, „Front”, „Profile”, „Features”, „Style”, „Cut”, „Shape”, „Accessories”, „Color” and „Stage”.

Remember, you do not have to use all tabs to finish work, you can stop and export your 3D head at any stage.

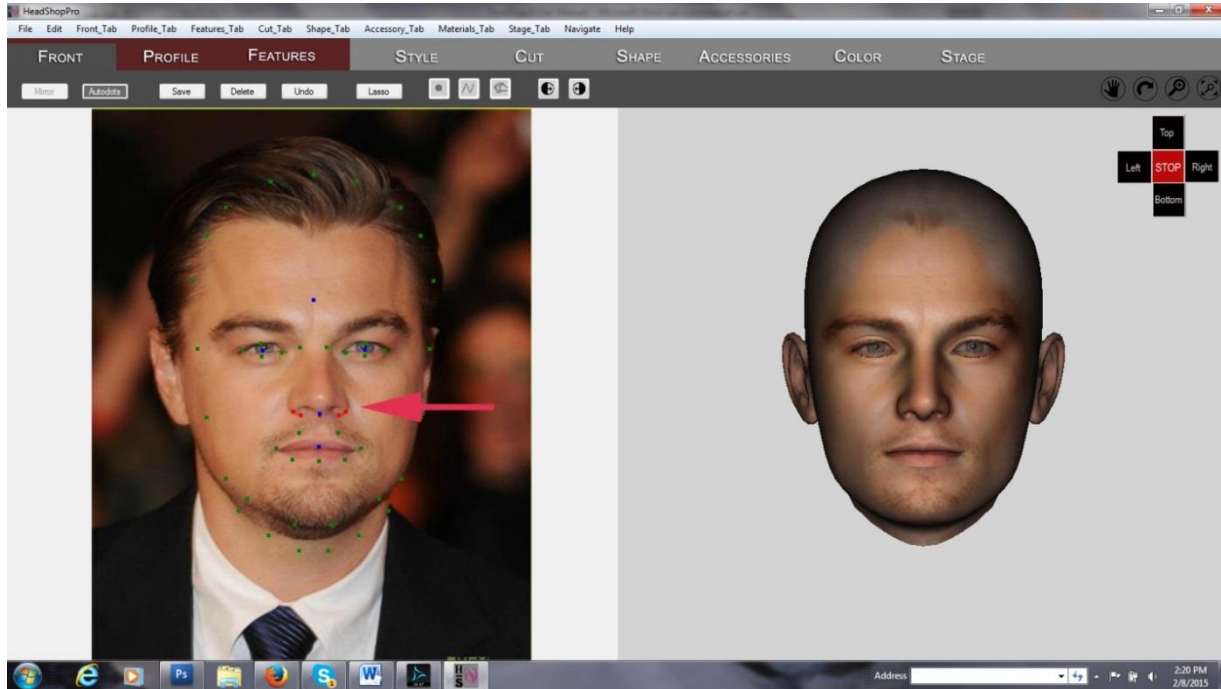
Below you will see buttons and tools used in the first (default) tab. Click on „Autodots”. You will see that HeadShop puts down groups of green dots. Each group of green dots, such as for „left-eye”, „right-eye”, „nose”, „mouth”, „headshape” is controlled by a blue dot.



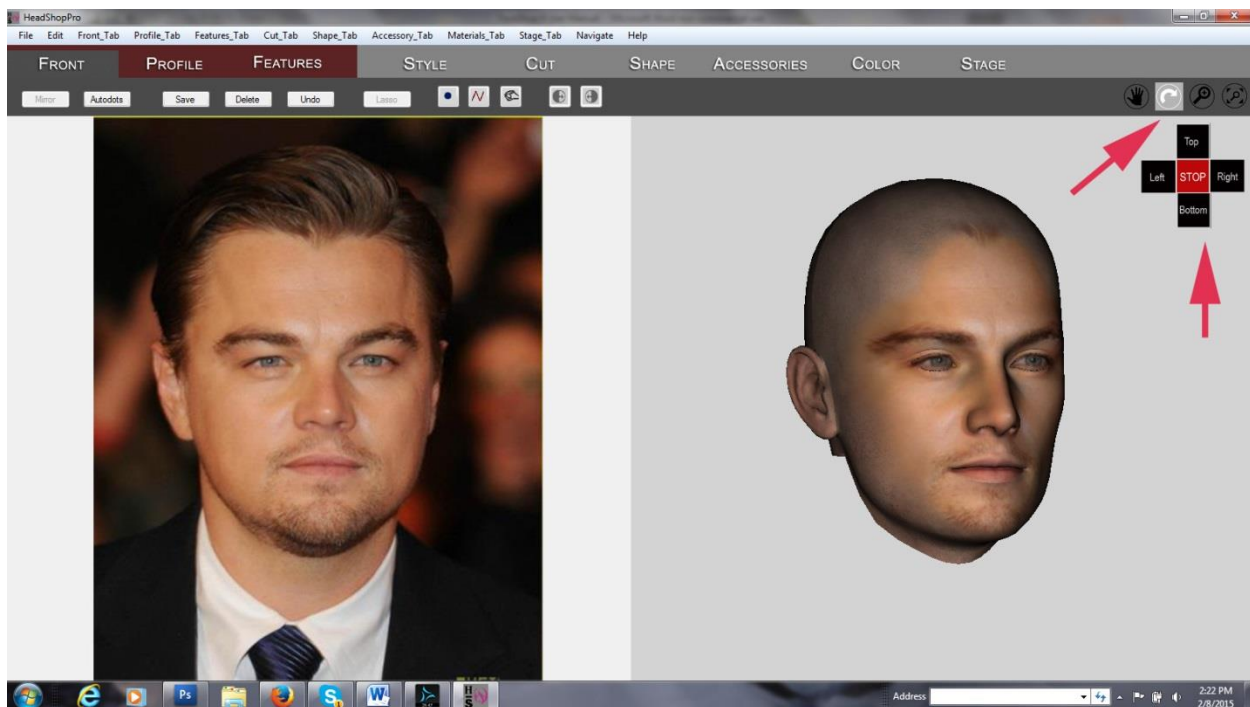
Unclick „Autodots”. Chances are you get a fairly close texture mapped over the 3D head on the right.



Step 6. You may notice that one or the other part of the texture does not fit exactly, like here with the nose. To remedy, click on the „Autodots” button again. You can move all points associated with the nose together by selecting all „nose” points via the blue „nose” controll dot. This will highlight red all the „nose” dots and you can move them together on the left screen to the correct position. Sometimes it is possible, that if the nose or nostril shape is different, you may also move individual green dots or pair of dots (Shift-selecting more than one).

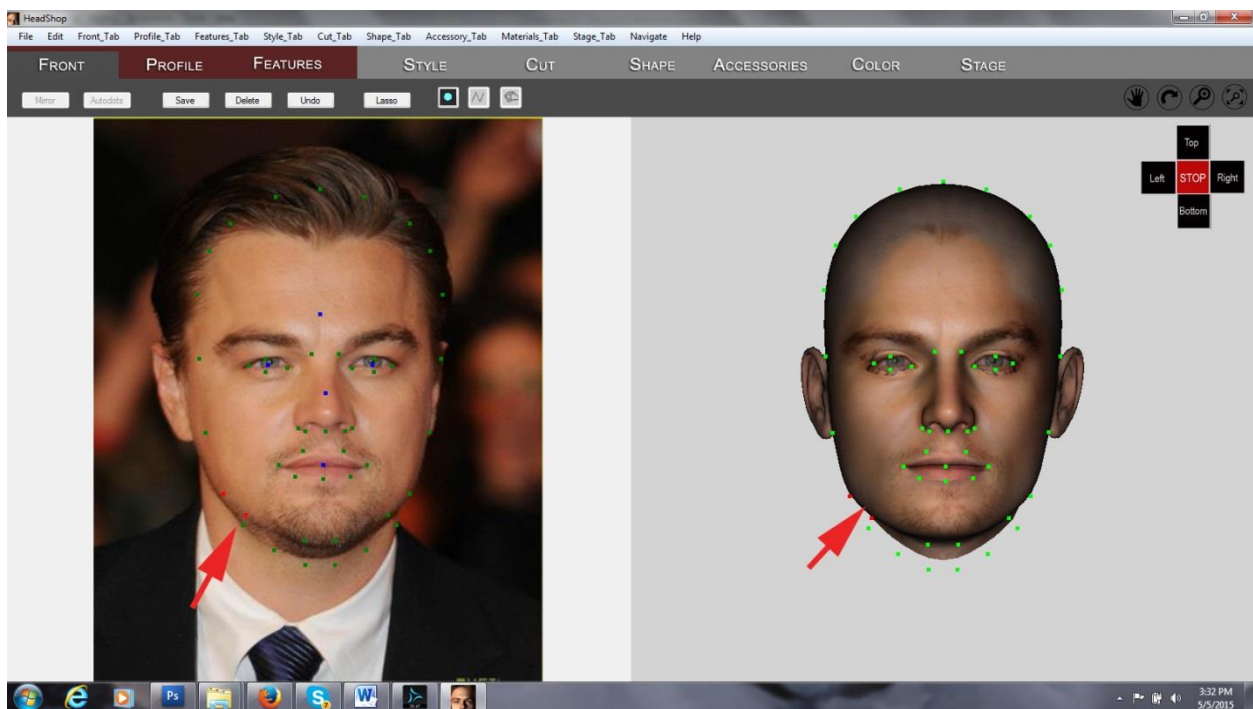
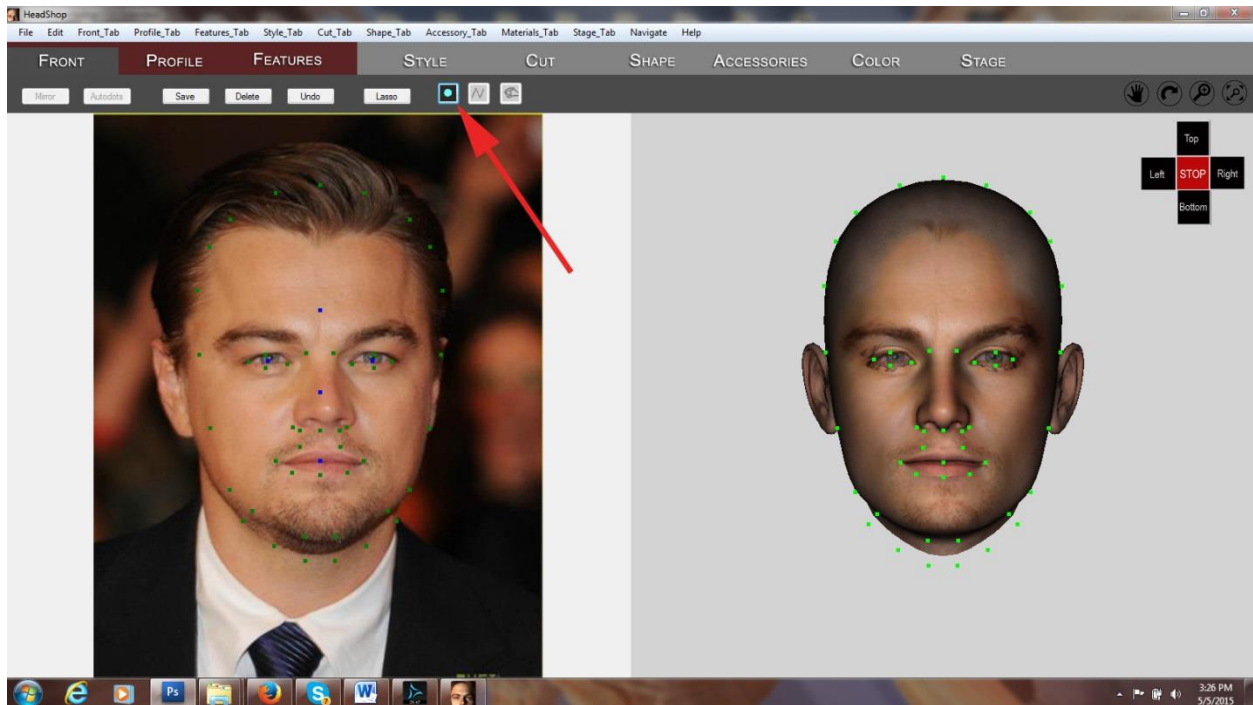


Finally, if you are happy with the result, unclick „Autodot” and by clicking on the „Rotate” tool in the navigational panel you can rotate and observe your head.



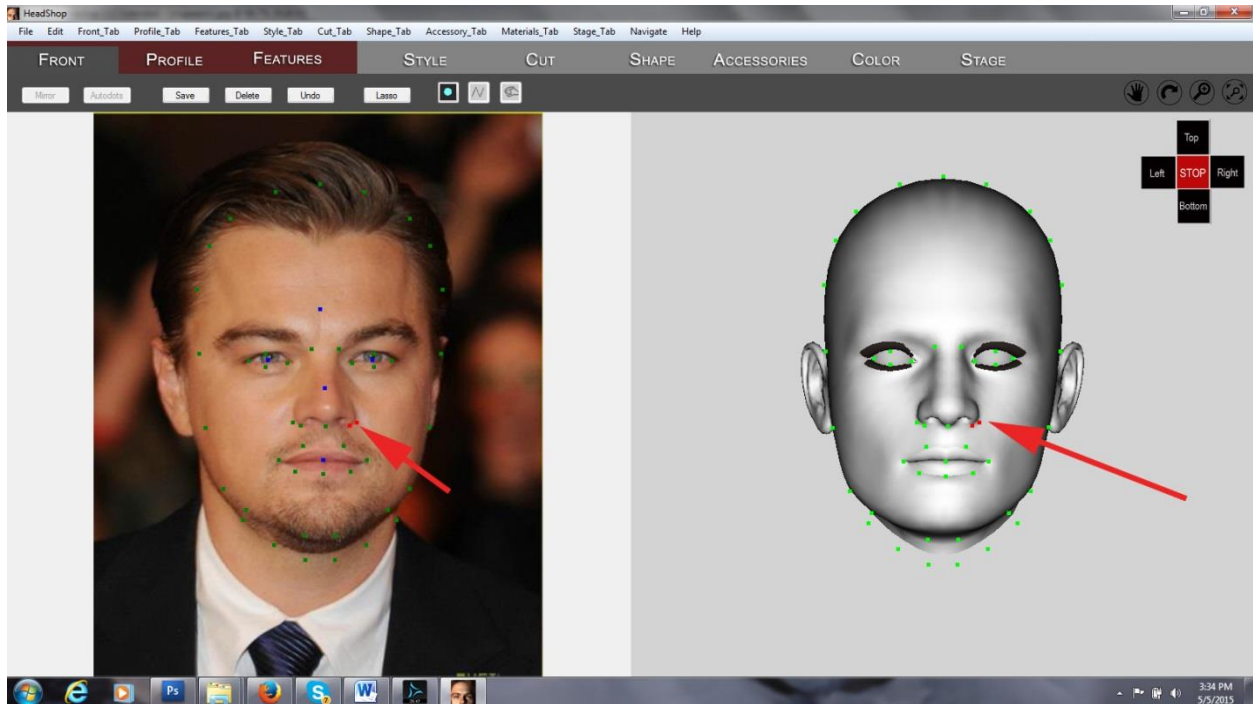
Step 7 - Shapedots

As opposed to „Autodots” that map texture, „Shapedots” change the shape of the head. If you click on the „Shapedots” button, a new set of dots will appear. Moving these dots on the left screen will change the shape of the 3D head on the right screen.



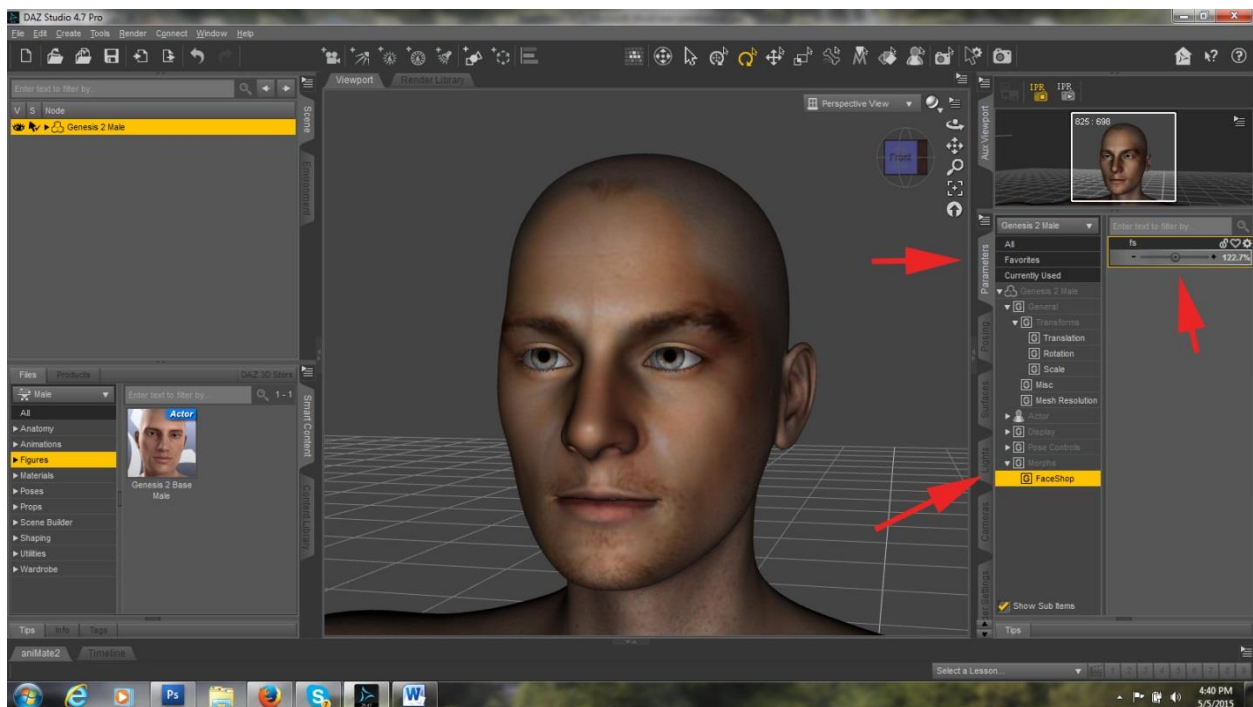
For instance, moving the 2 jaw dots on the right will shape the jaw more „square” on the right. Similarly, moving other dots, either individually or together makes similar changes to the head. More about this in Chapter 2: Menus.

A good way to observe the shape changes is by hitting the „Space bar”. This will hide the texture and will show you the shape only.



If satisfied, select „export” from the „File” menu and click OK. HeadShop will export and close.

Your work will be transferred back into DAZ Studio, where you can continue to work with your character. You can change the amount of morph you apply in the „Parameters” tab under „Morphs/FaceShop” with a simple slider, applying more or less „shape” to the head.



Chapter 2: Menus, Tabs and Tools

Tabs



As noted before, HeadShop's main workscreen is supported by 9 tabs to describe the workflow. This workflow will start with the „Front” tab where texture and shape is applied to a 3D head. The next tab, „Profile” would allow the change of a head's profile, maybe changing the shape of the nose or chin. The „Features” tab can change the head's age or weight with simple sliders. Notice that you can go back and forth between these tabs to further refine your product.

The next 5 tabs will be dedicated to add hair and accessories, such as glasses, jewelry or hats to the head. This can come handy if you plan to prepare for a 3D print.

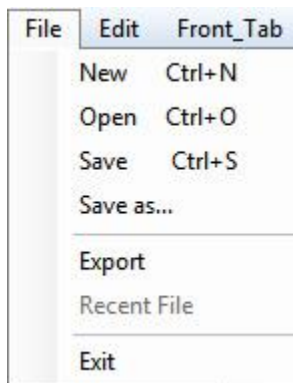
The first tab here is „Style”, which let's you choose among 8 premade hair styles. Advanced users can also add to this „Hair library” by importing OBJ meshes of other hair items (for example from DAZ libraries). The advantage of doing so is to make changes to that hair. Next tab is „Cut”, where a hair can be cut. More about this in advanced modeling in Chapter 3. In the „Shape” tab users can shape the hair, making it longer, wider, narrower, etc. In the next tab. „Accessories”, library items such as glasses, jewelry or hats can be added. Like with the „Hair library”, „Accessories library” can add other OBJ items from other applications. The „Color” tab is self-explanatory; here you select a hair or accessory and change its color and transparency, or add textures from the „Color library”. Like with other libraries, this library can be added to with JPG patterns.

The last tab is „Stage”. Here you can preview your creation in front of different backgrounds (similar to other libraries, „Stage library” also accepts JPG images). There's a snapshot photo function that lets you take and send JPG images of your work.

In all tabs and stages user can stop and Export the work. Clicking on Export will terminate HeadShop and send the morph and texture back to DAZ Studio.

Menus

File

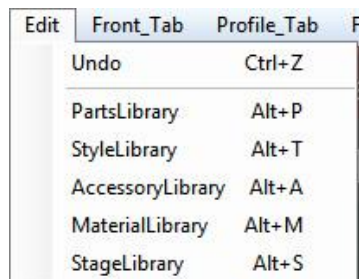


New (Ctrl+N)	Creates new project
Open (Ctrl+O)	Opens existing project
Save (Ctrl+S)	Saves project
Save as...	Saves project in formats (HeadShop project, OBJ Hair, DAE model)



Recent File Shows recent files
Exit Exits application

Edit



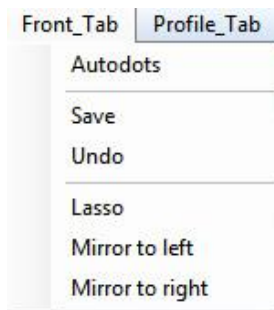
Undo Undoes last step
Parts Library Shows parts saved or used in the project. Parts can be highlighted and sized, show or stay hidden
Style Library Comes with 8 standard styles. Hair-length can be changed via slider (except for #1). User can add other OBJ files via „Add New”.
Accessory Library Comes with 10 standard items. Size can be changed via slider (except for #1). User can add other OBJ files via „Add New”.
Material Library Comes with 13 standard textures. Size and angle can be changed via slider. User can add other OBJ files via „Add New”.



Stage Library

Comes with 2 standard backgrounds.
User can add other OBJ files via „Add New”.

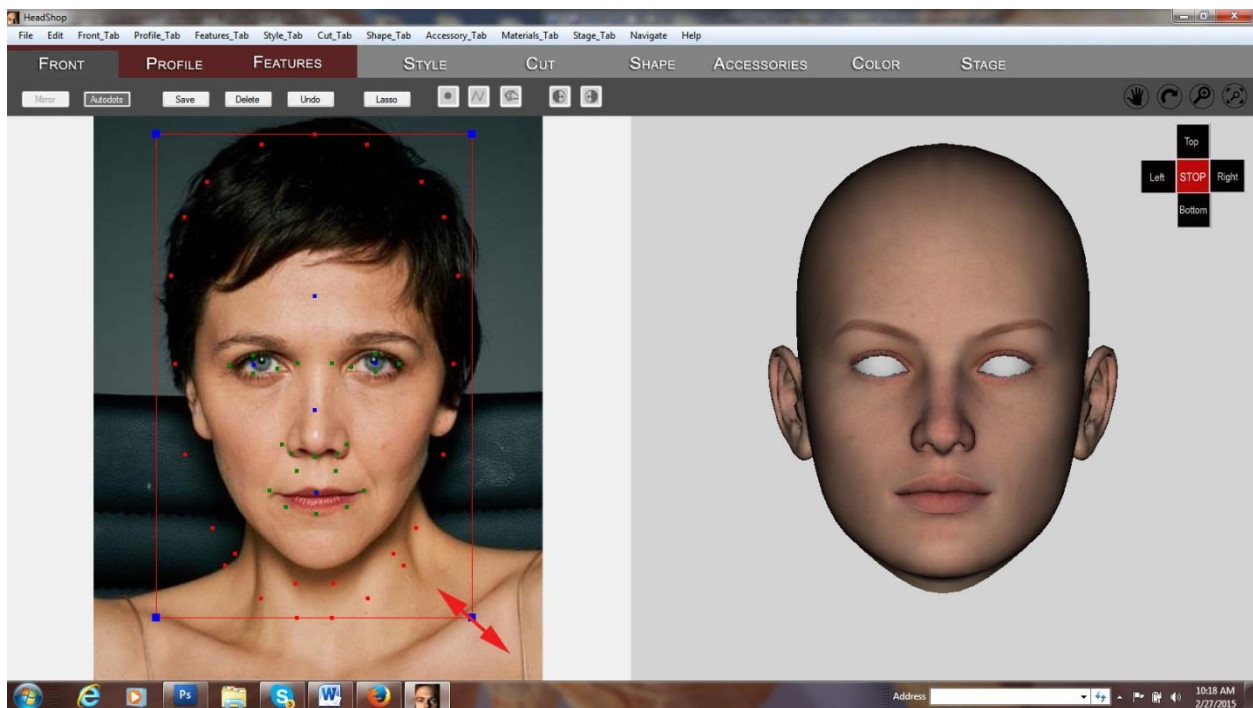
Front_Tab

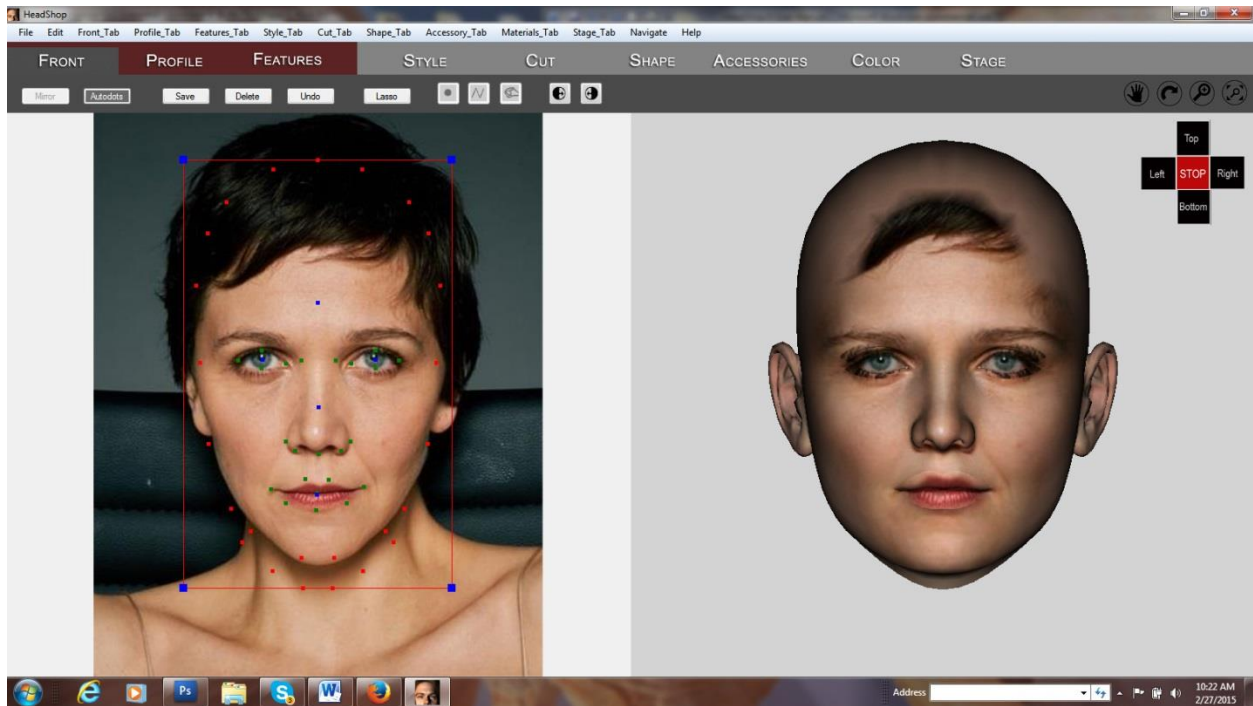


Autodots

Autodots facilitate the placing and adjusting of the texture map. There are several ways to move dots to fit the photo's features:

Group dots (blue). Clicking on the blue dots move group of dots for mouth, nose, eyes or head shape. For the head shape, there's a bounding box that user's can resize and move via the corners as show below

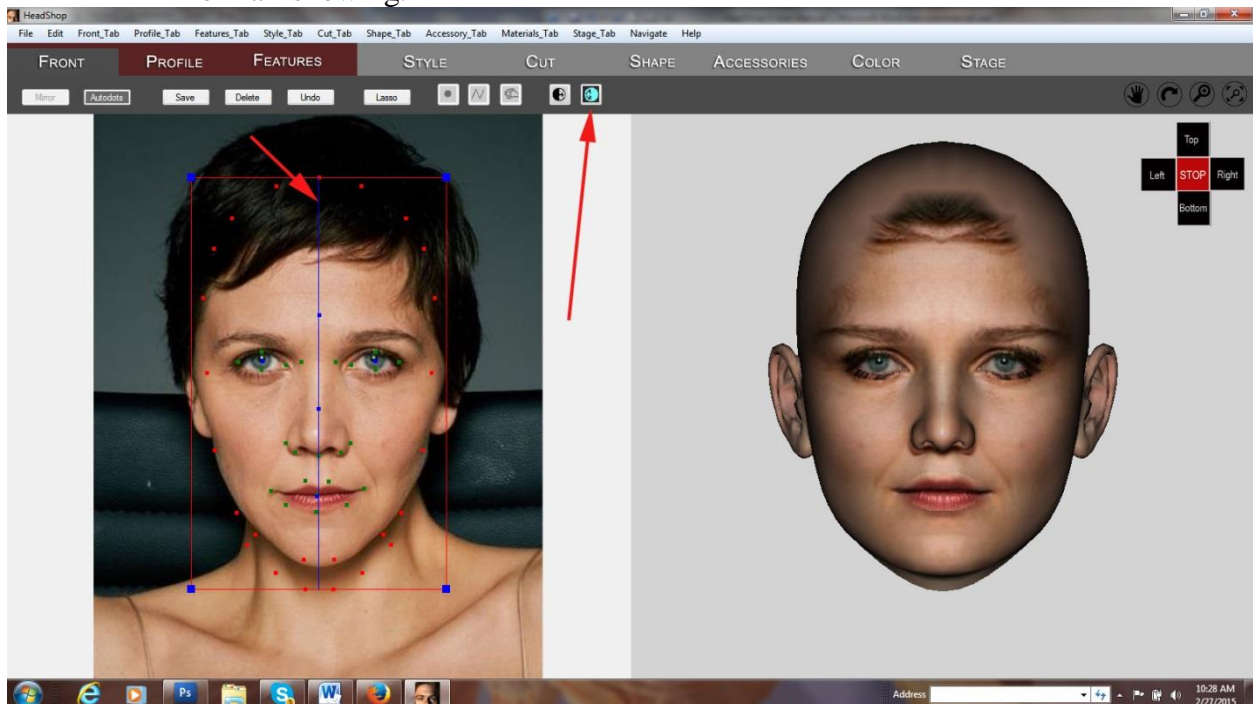




To see more about Autodots, pls. watch „How-to” video at <https://www.youtube.com/watch?v=JC5z64YP1xA>

Save Saves current project into the Project Folder
 Undo Multi-step Undo undoes last few operations
 Lasso Allows the selection of several dots at the same time
 Mirror left

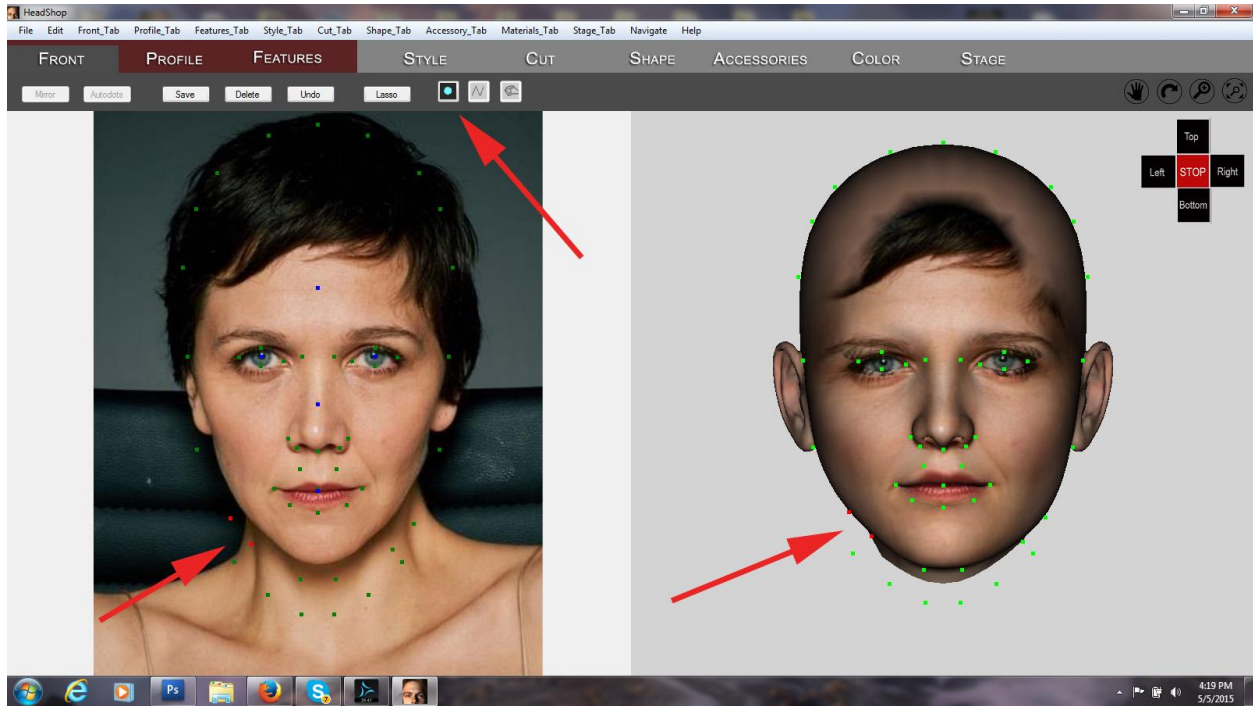
Mirror right It is used when one side of the photo has issues, such as hair or bad shadows. In the example below we mirror from right-to-left to reduce the amount of hair showing.



Shapedots, Line and Freehand tool.

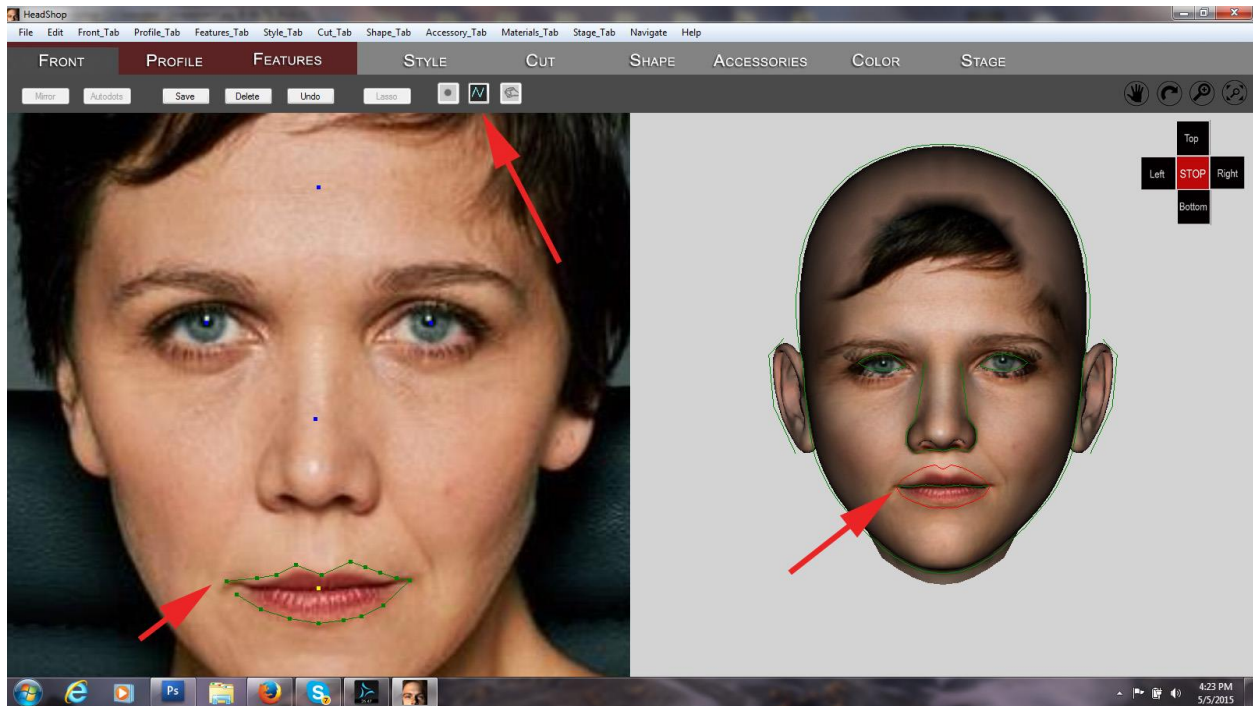


Shapedot. This is the tool to change the shape of the head. Unlike the „Autodots” feature, which changes the texture position, „Shapedots” will change the shape of the jawline, the nose, etc.

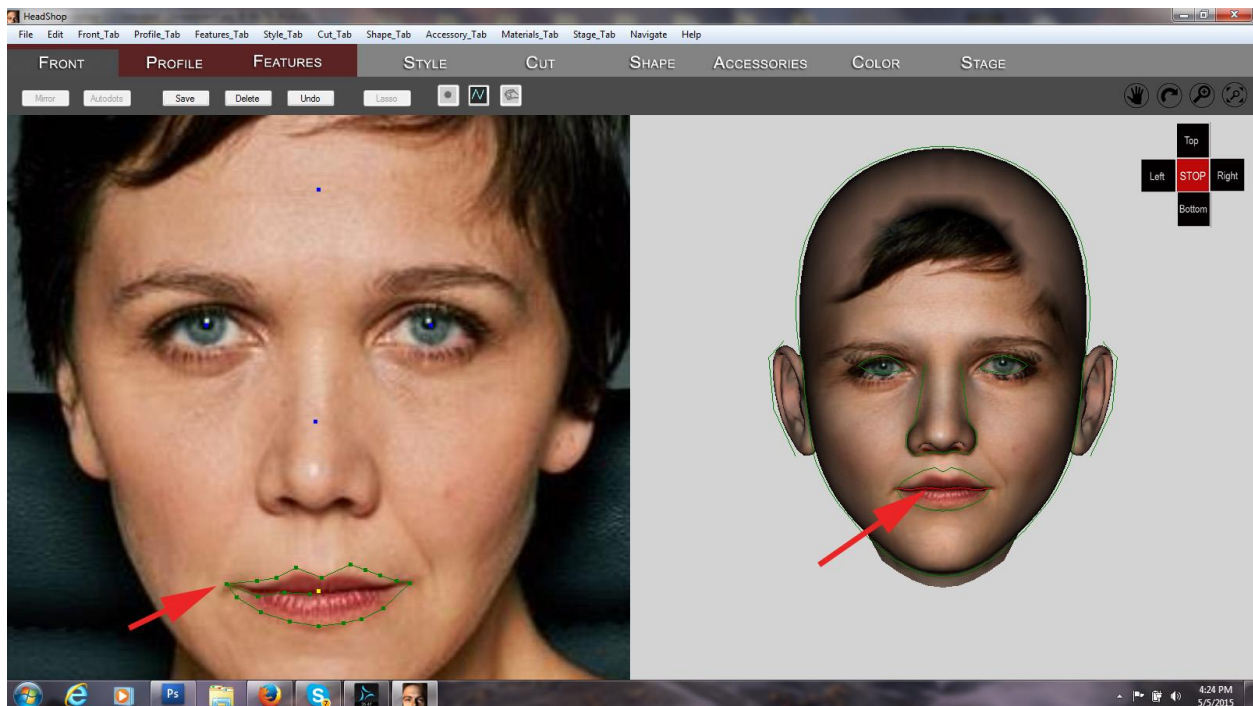


Here we move the two dots on the left jawline to achieve the unique narrow shape of the head.

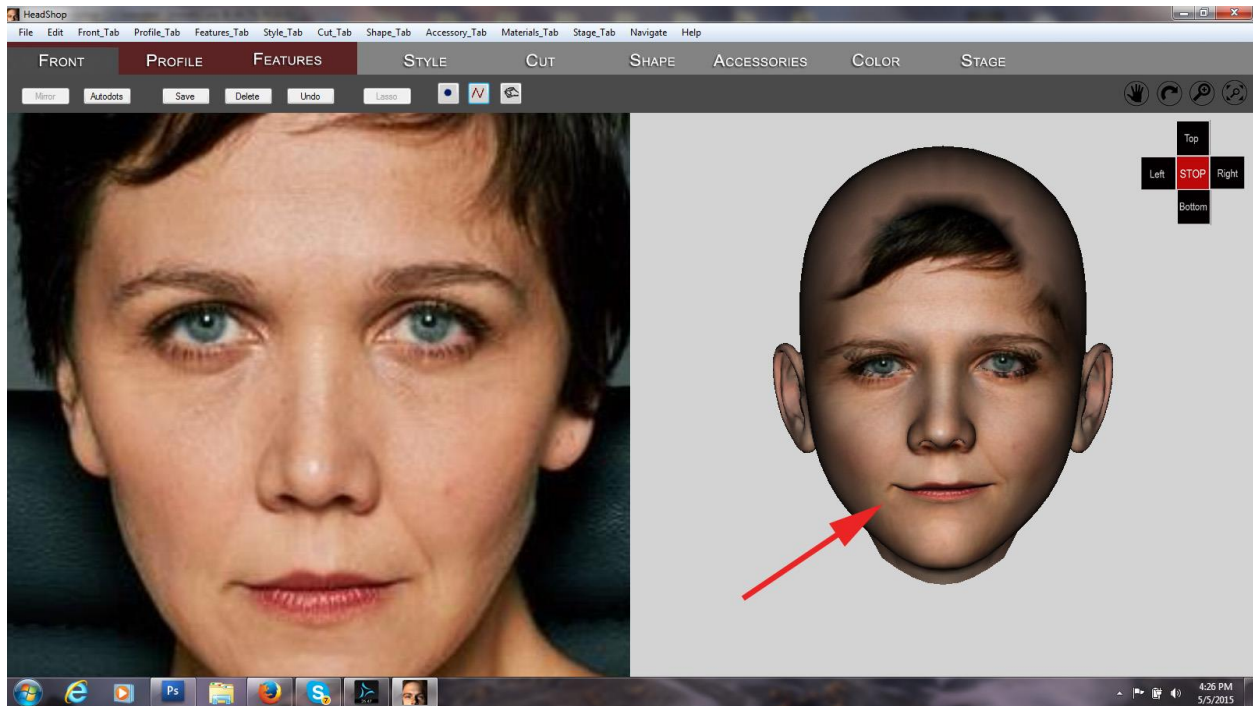
Linetool. This tool lets you draw elements for more precise definition. For example; to reproduce the unique shape of her mouth, you may use the line tool.



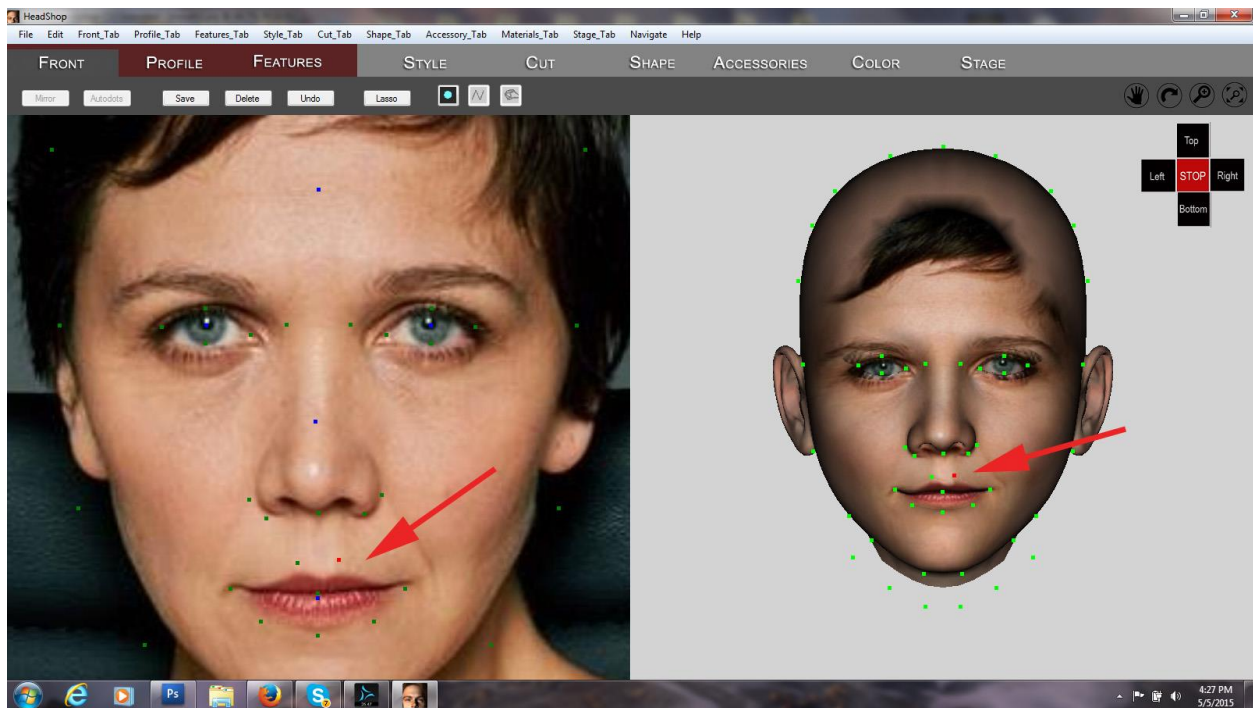
You start from the left corner of the mouth by clicking and connecting line segments until you finish back to the first dot (notice the guide on the left highlights the task).



Now the middle line turns red on the guide. You start to draw the middle line, beginning at the right corner. When finished, both guides show green. Unclick the line tool.

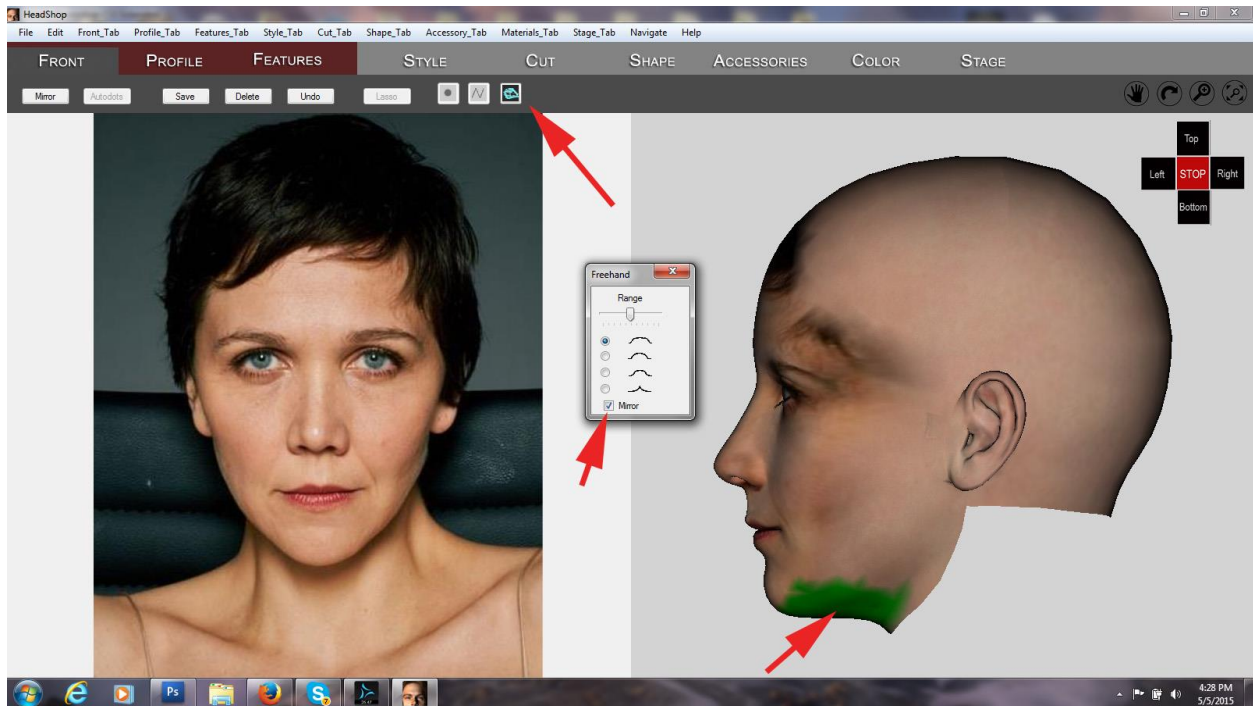


Notice that the line is now shaped right, but maybe a bit too narrow. You can still adjust the shape further with „Shapedots”.

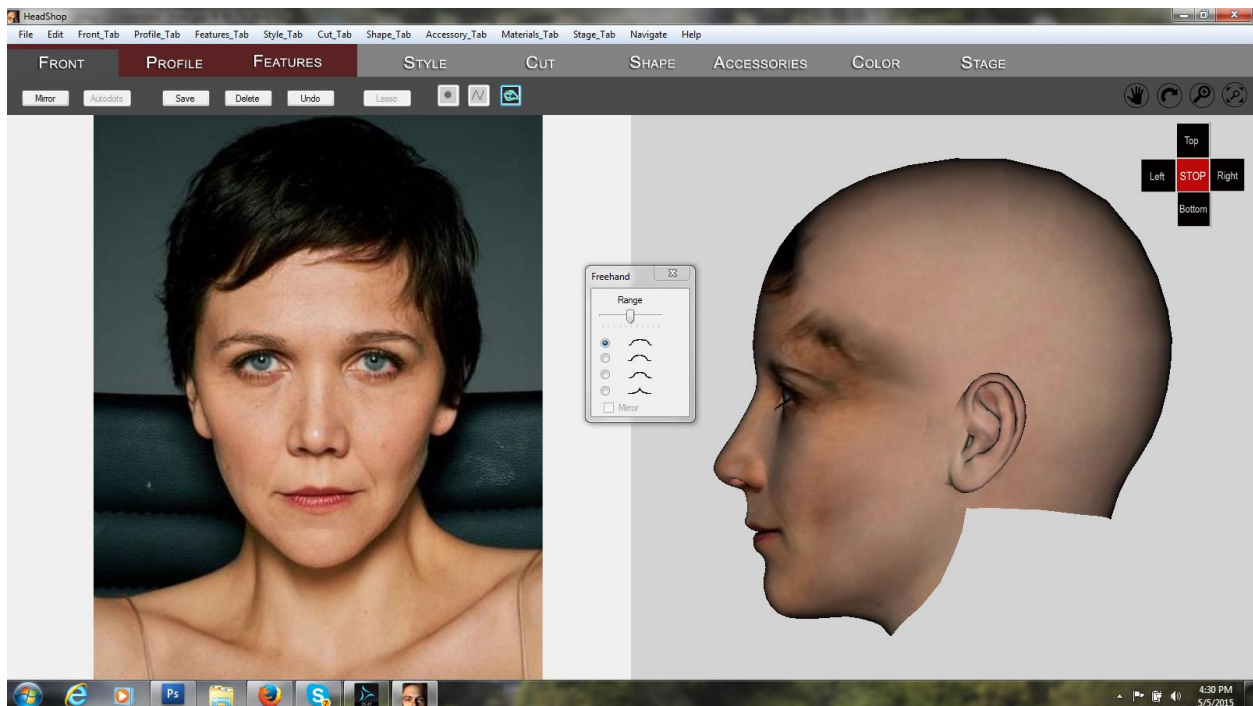


See more visit: <https://www.youtube.com/watch?v=pllrJUBj8&feature=youtu.be>

Freehand Tool. This tool lets you select areas and move them with the cursor. For instance, if you want to change the chin shape, you may select the area with the Freehand tool.



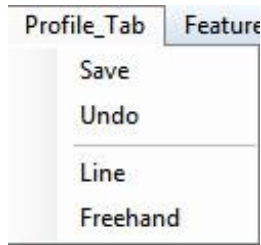
Notice that the slider allows you to expand or shrink the selected area. Don't forget to check the mirror button to make your changes symmetrical.



Watch:

<https://www.youtube.com/watch?v=c2Yvd2DaiDg>

Profile Tab



Save

Undo

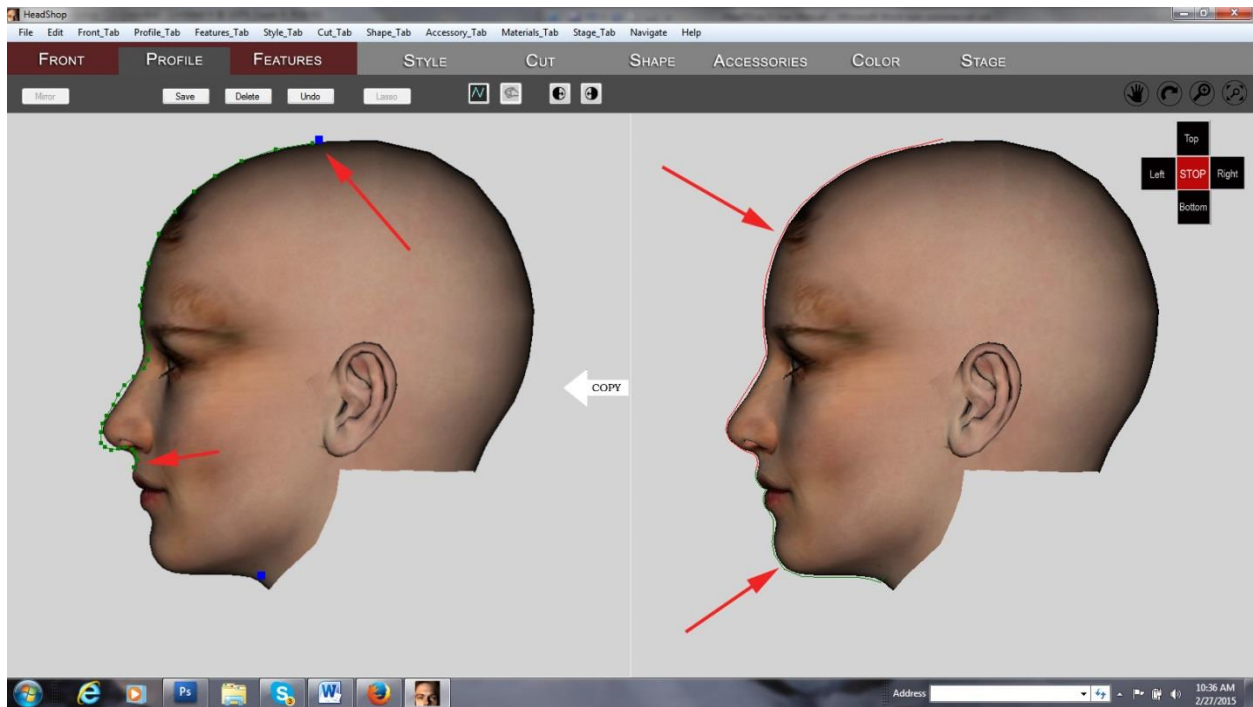
Line

Saves project

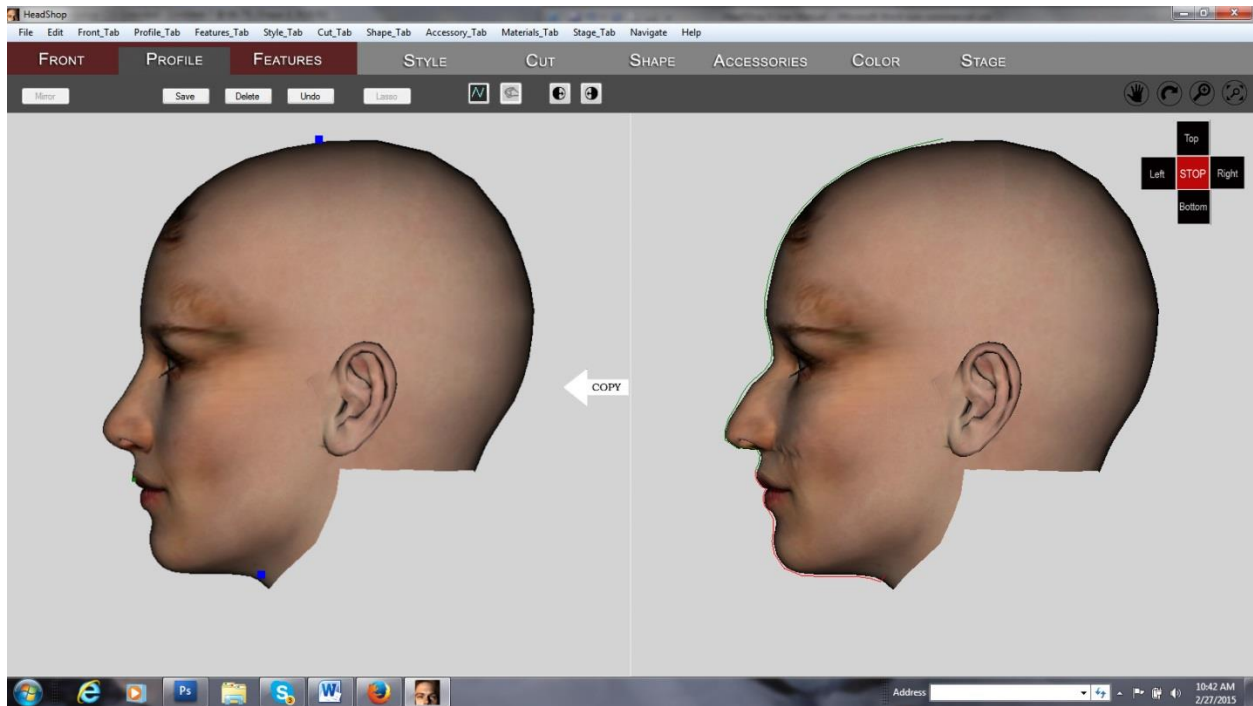
Multi-undo undoes last several steps

Line tool traces new profile. Steps:

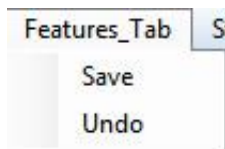
- Zoom right head to be of a comfortable size for tracing.
- Click on „Line” tool. This will give you two large blue dots. Top dot denotes where to start tracing on the left.
- The first line ends just over the mouth (see guide on the right side of the screen).



- Hit enter twice to see results. If necessary continue from the leap to draw the lower half of the head (or you can skip this step).

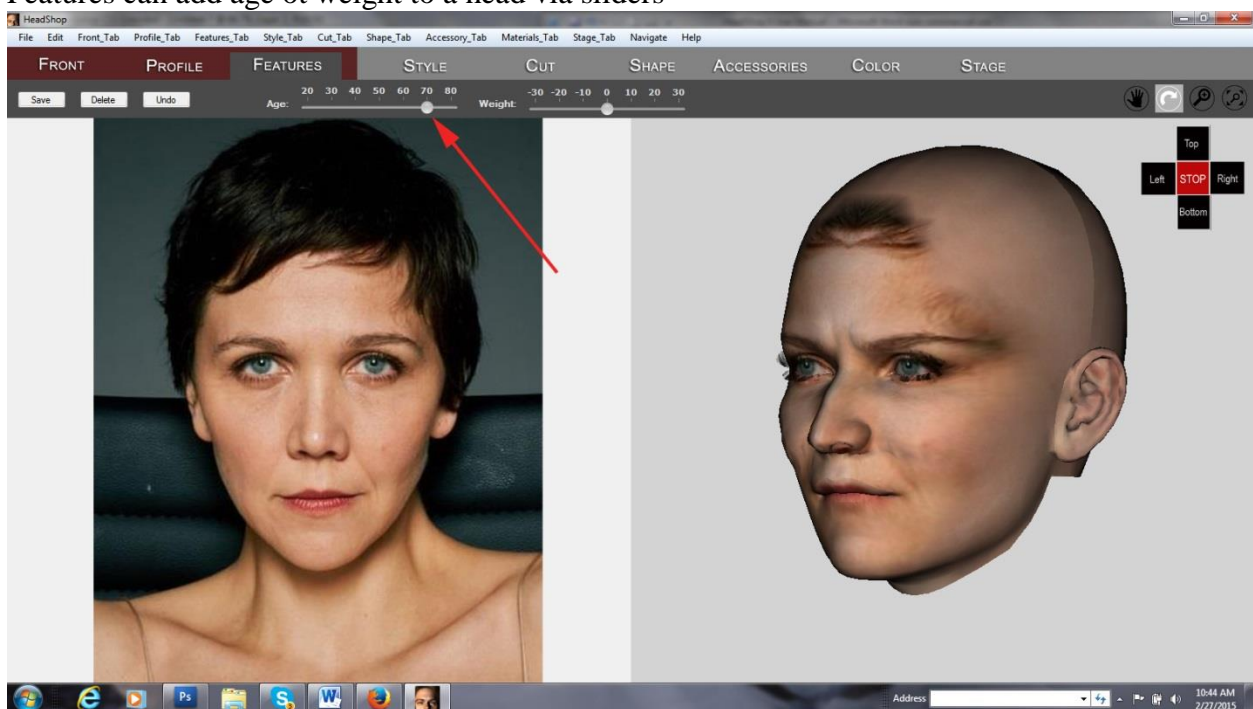


Features Tab



Save Saves project
Undo Multi-undo undoes last several steps

Features can add age or weight to a head via sliders

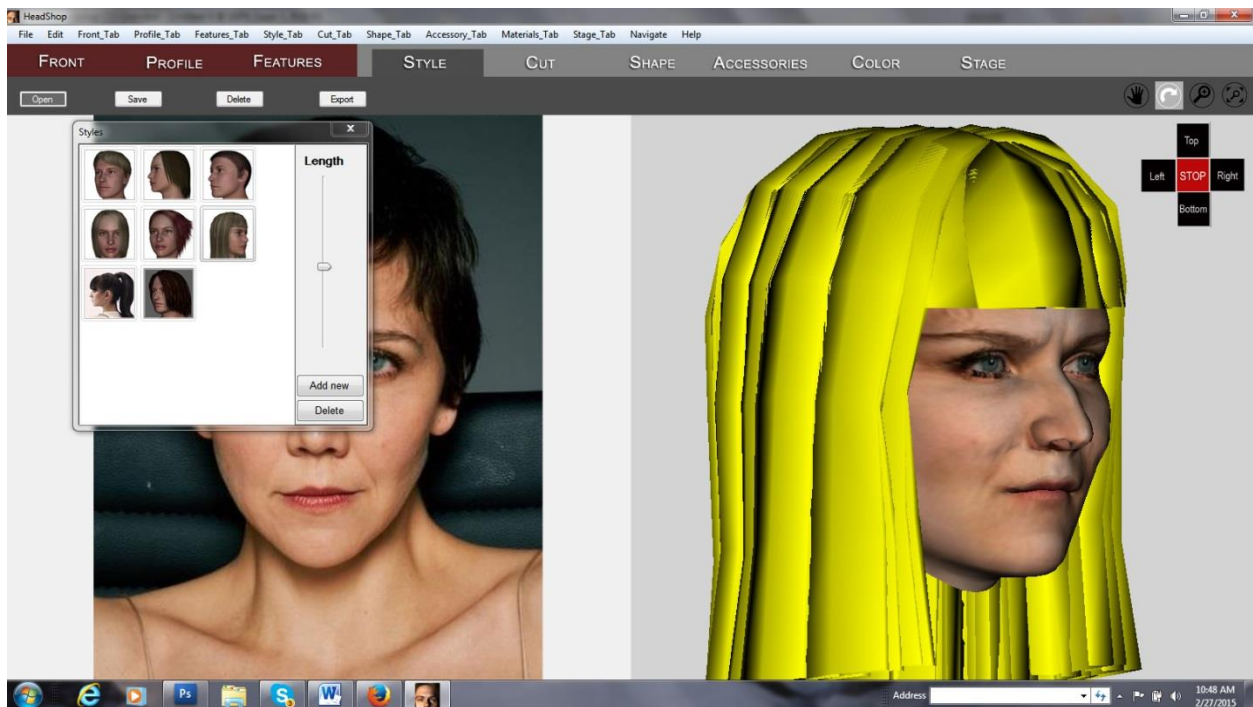


Style Tab



Open	Opens Hair Library
Save	Saves Hair into Parts Library
Delete	Deletes highlighted hair
Export	Exports project to DAZ Studio and terminates HeadShop

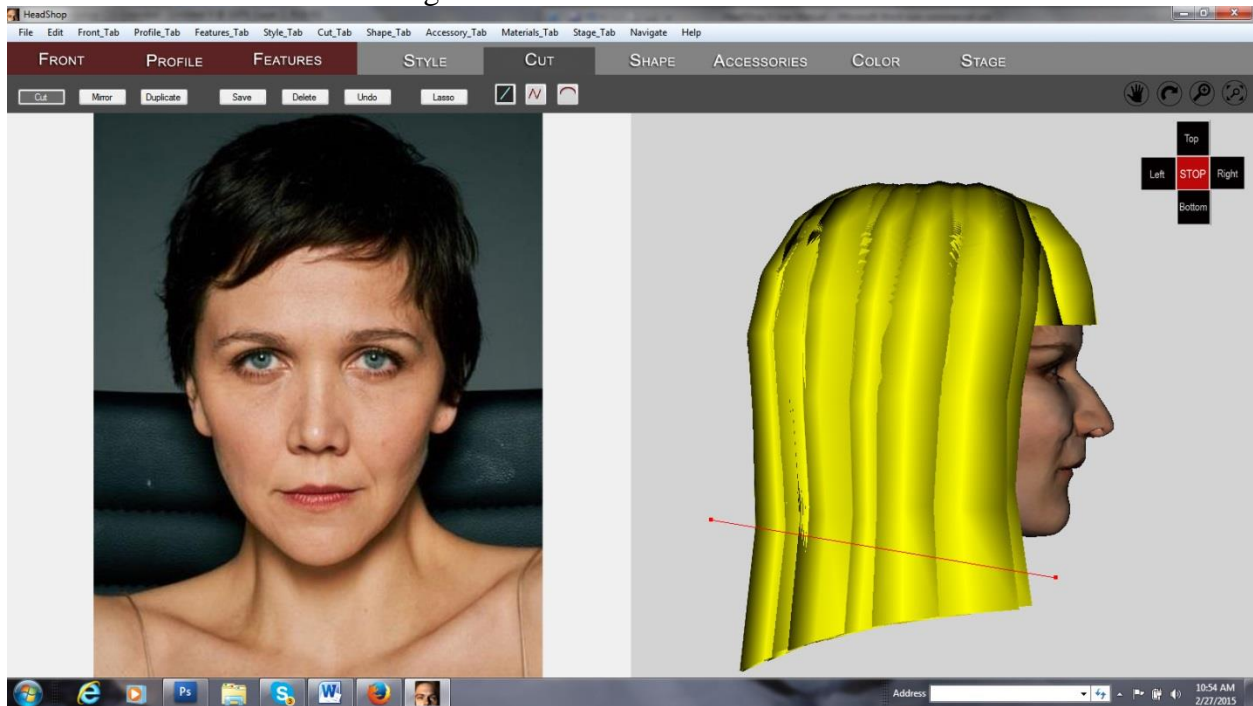
Style is the place to add hair to the head. Choose and drag hair to fit model. Use slider to make hair longer or shorter (except #1).



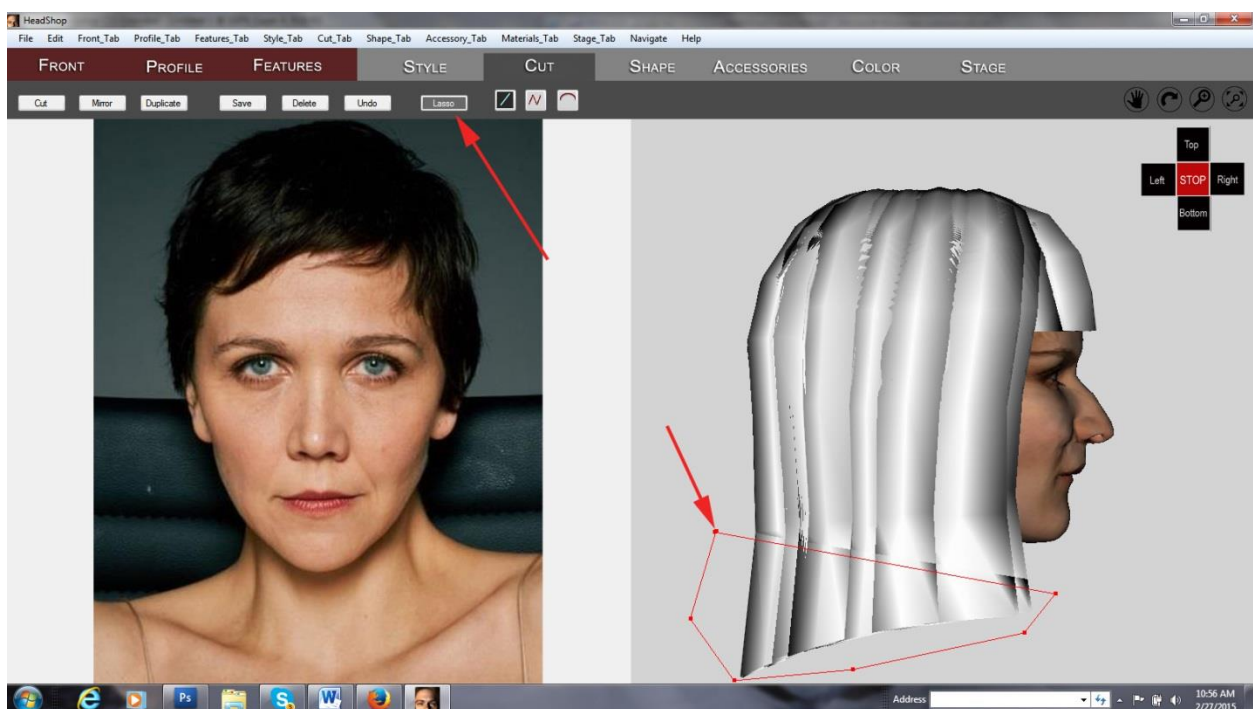
Cut Tab

Cut_Tab	Shape_Tab	Acc
Cut	Ctrl+U	
Mirror	Ctrl+M	
Duplicate	Ctrl+D	
Save	Ctrl+S	
Delete	Ctrl+X	
Undo	Ctrl+Z	
Line	Ctrl+L	
PolyLine	Ctrl+P	
Arc	Ctrl+A	

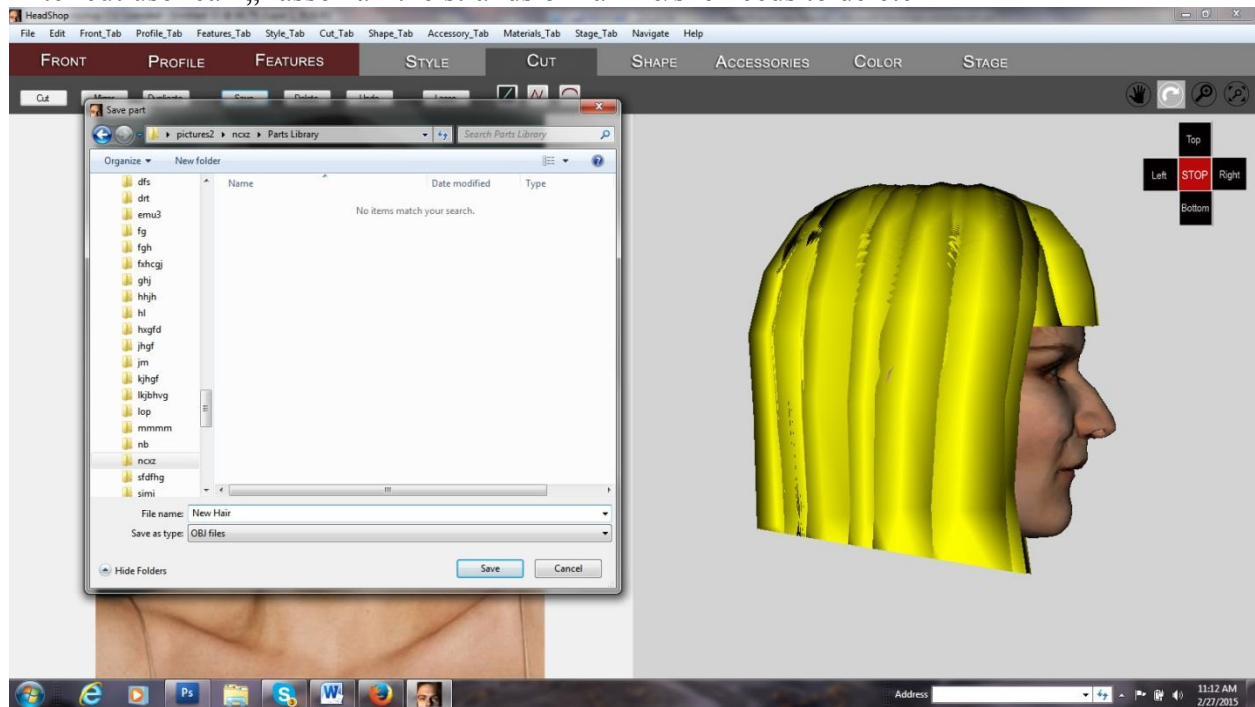
Cut	Cuts hair along the lines defined by user (either by using the line, plyline or arc tool).
Mirror	When selecting a Part of the hair, you can mirror selections to the other side of the hair.
Duplicate	Duplicates a highlighted item
Save	Saves a highlighted item into Parts Library
Delete	Deletes highlighted item
Undo	Undoes recent changes
Line	Line cutting tool
Plyline	Polyline cutting tool
Arc	Arc cutting tool



Cutting tool works on highlighted items, by activation cutting tool and unclicking it after cut



After cut user can „Lasso” all the strands of hair he/she needs to delete

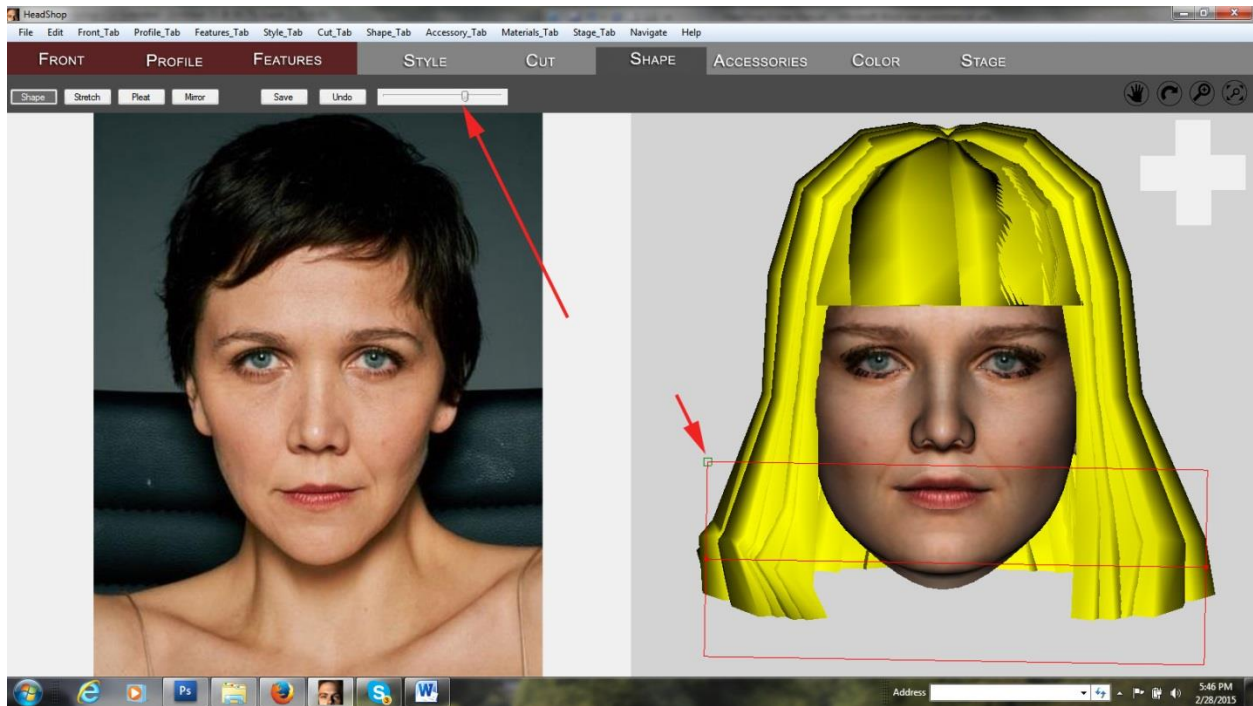


Hair that needs to be save also have to be „Lassoed” and then saved as one piece into the Parts Library.

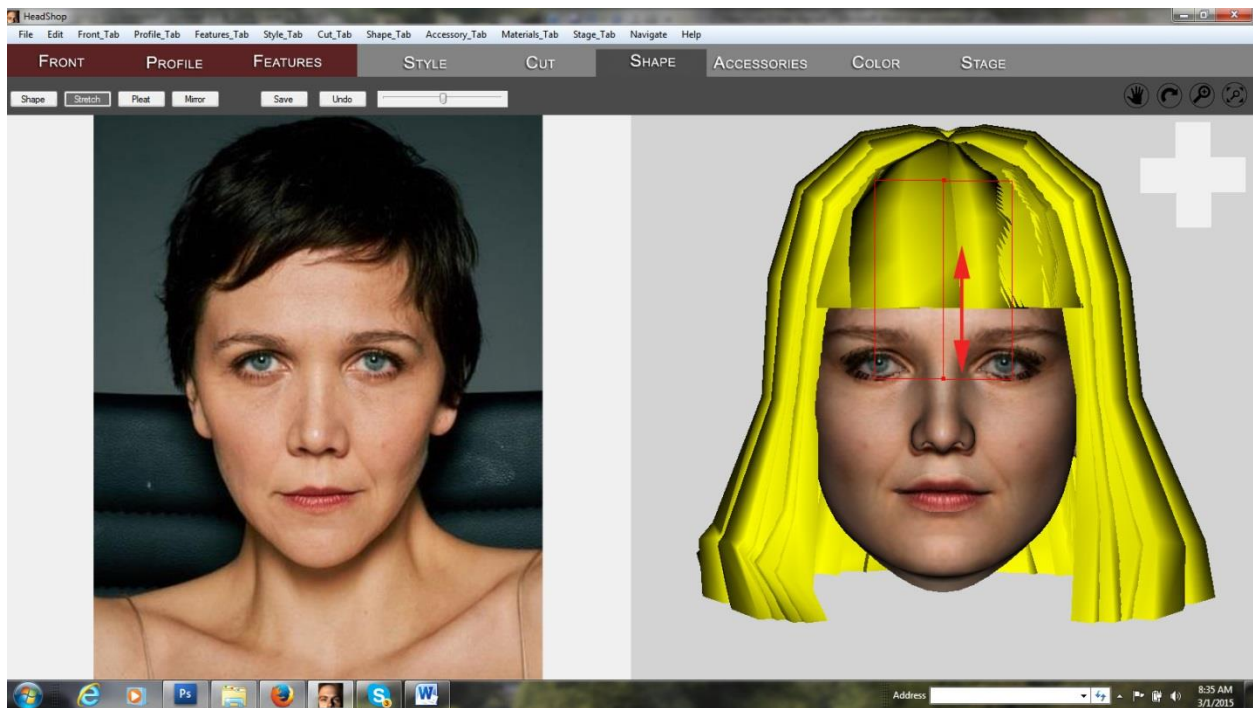
Shape Tab

Shape_Tab	Accessory_T
Shape	Ctrl+H
Stretch	Ctrl+T
Pleat	
Mirror	Ctrl+M
Save	Ctrl+S
Undo	Ctrl+Z

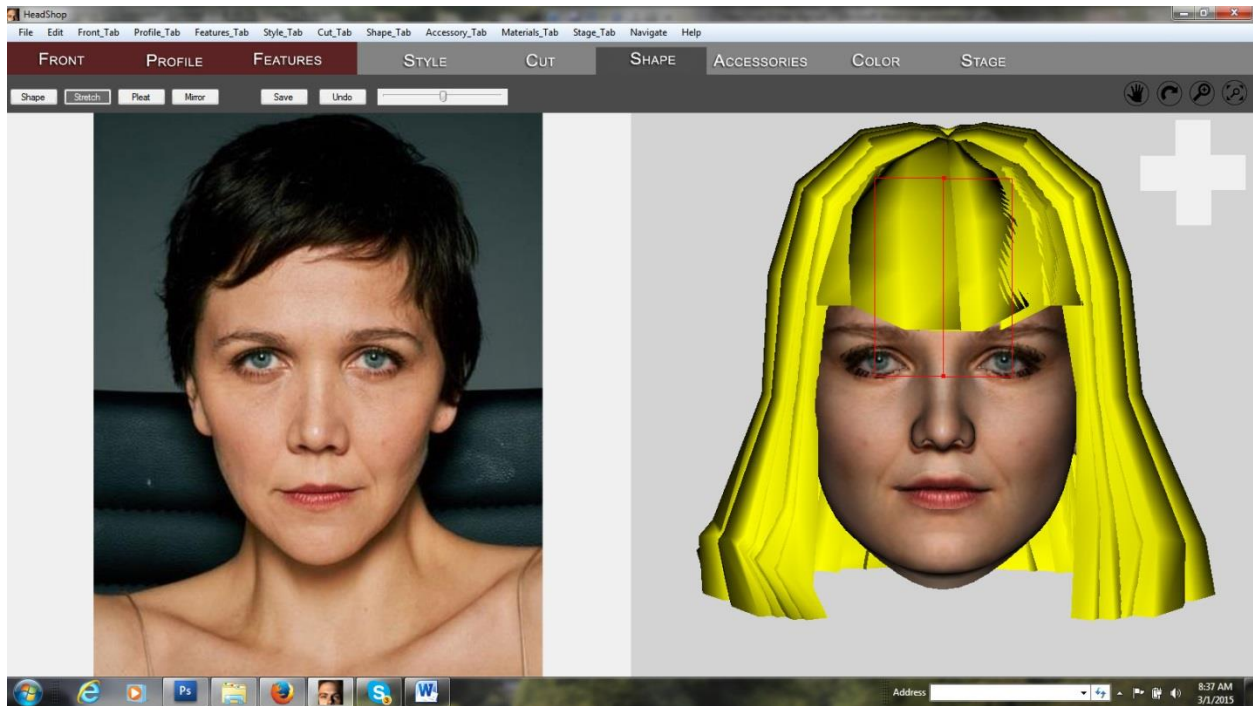
Shape	Shapes hair via sliders
Stretch	Stretching via sliders
Pleat	Pleats hair
Mirror	Mirrors action
Save	Saves new hair into the Parts Library
Undo	Undoes recent changes



Shape tool let user draw a centerline and also adjust box size (short arrow). Shape is performed with a slider on top (long arrow).



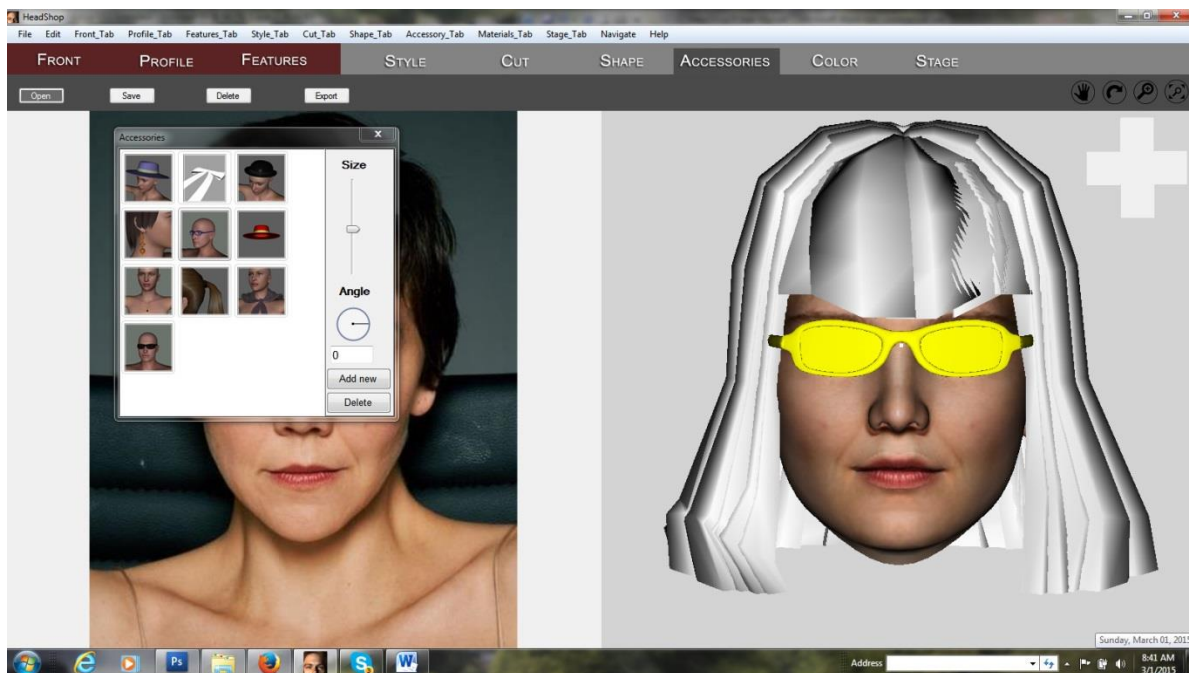
Stretch tool works similar to Shape. User draws center-line and shapes the box size via the corner controls. Once satisfied, user stretches area via the slider.



Accessories Tab

Accessory_Tab	Materials_Tab	St...
AccessoryLibrary	Ctrl+A	
Save	Ctrl+S	
Delete	Ctrl+X	
Export		

AccessoryLibrary	Opens library
Save	Saves accessory
Delete	Deletes accessory
Exports	Exports project and closes HeadShop



User can drag accessories, such as glasses, earrings, hats into position. Library items are sizable via slider and can be rotated if needed. User can also add OBJ items to the library or delete items from library.

Materials Tab



MaterialsLibrary

Opens library

Save

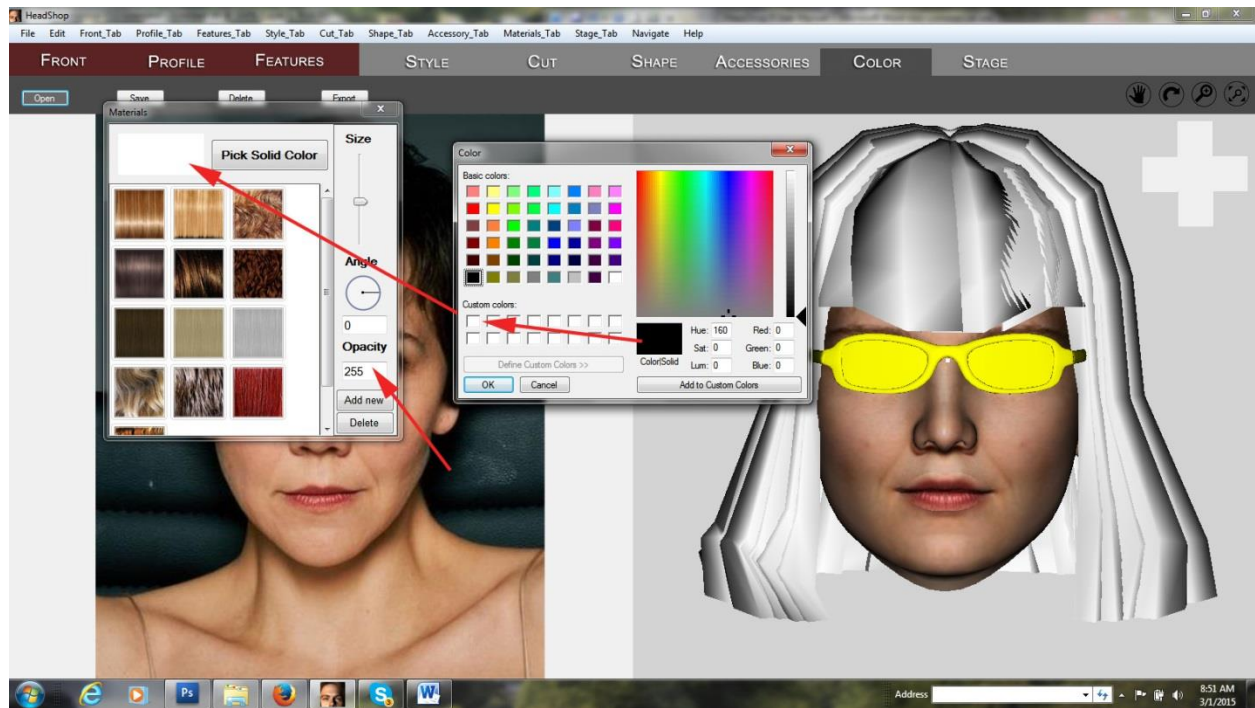
Saves project

Delete

Deletes highlighted item

Export

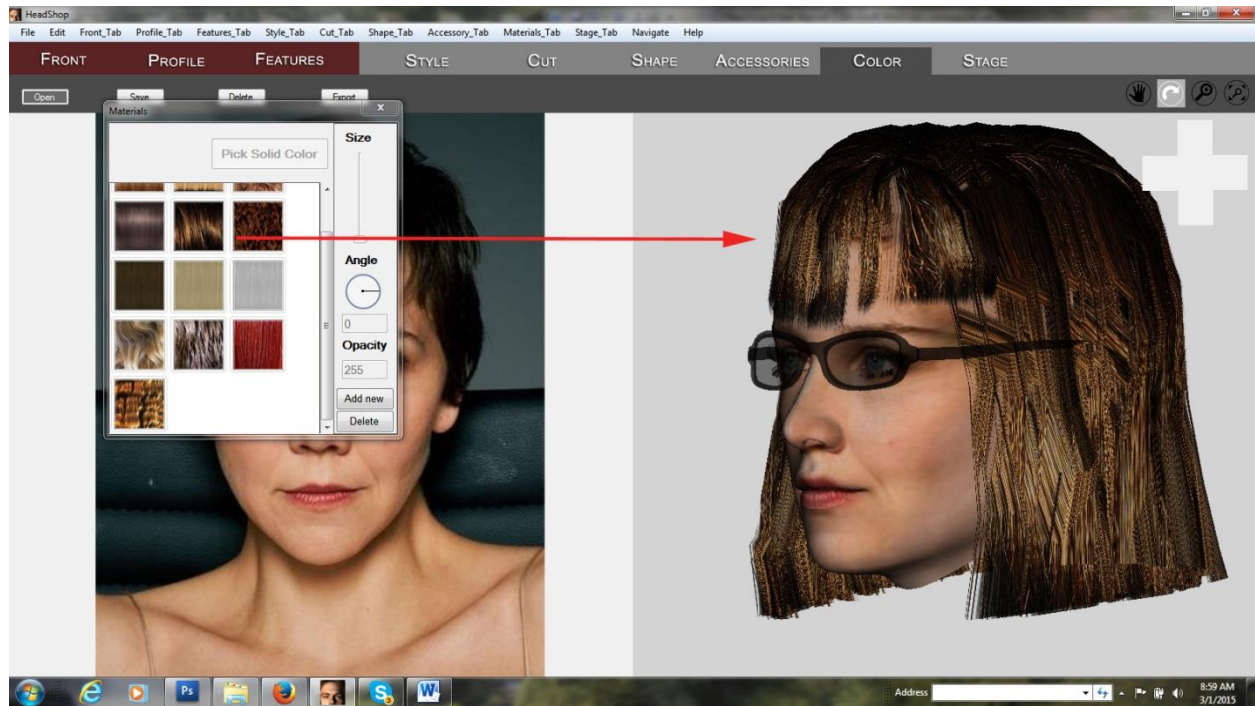
Exports project and closes HeadShop



Material library allows to apply either solid colors or patterns to an item. To apply solid color, user double-clicks on square next to „Pick Solid Color” button. This opens a color picker, where user can pick or select color and click „Add to Custom Colors”. When clicking OK, this custom color will appear in the square next to the „Pick Solid Color” button.

User clicks on „Pick Solid Color” and the color will be transferred to the highlighted item. Colors are solid in default (255) but that number can be changed to add transparency.

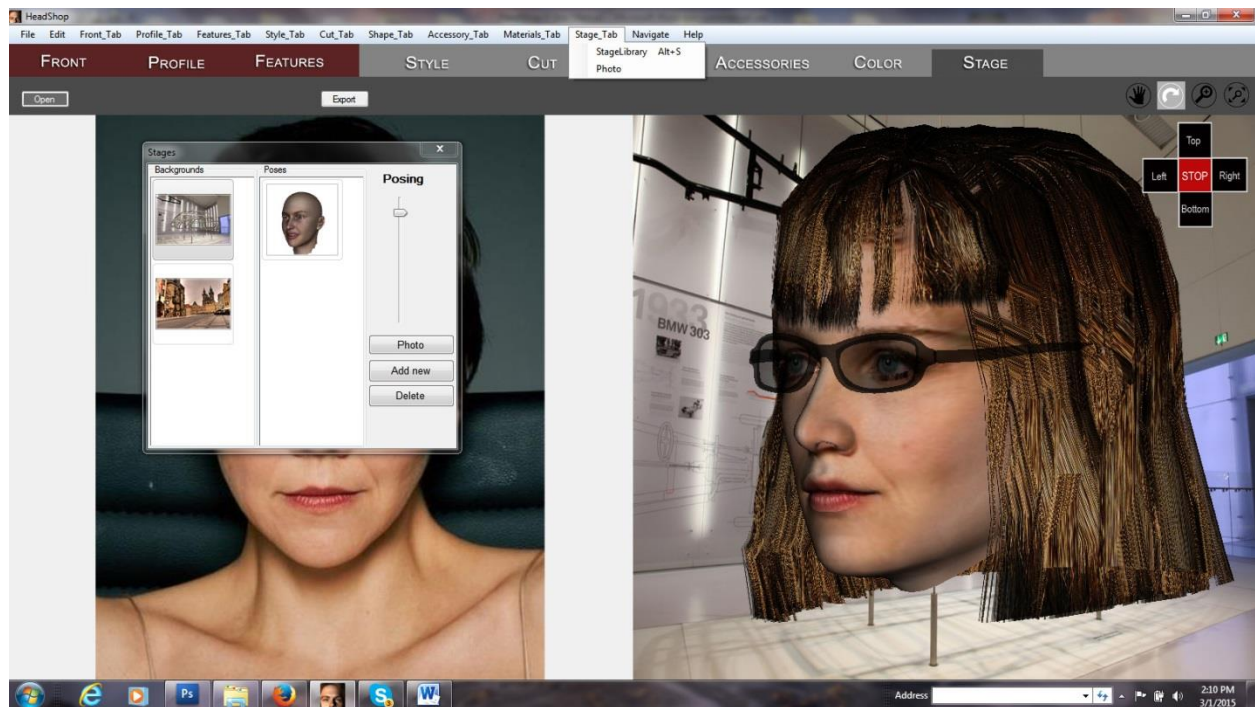
Patterns also can be added, either from the standard library or by other patterns user can add to the library items. Patterns apply to highlighted items, such as hair or accessories.



Stage Tab

Stage Library
Photo

Library
Creates jpg snapshots

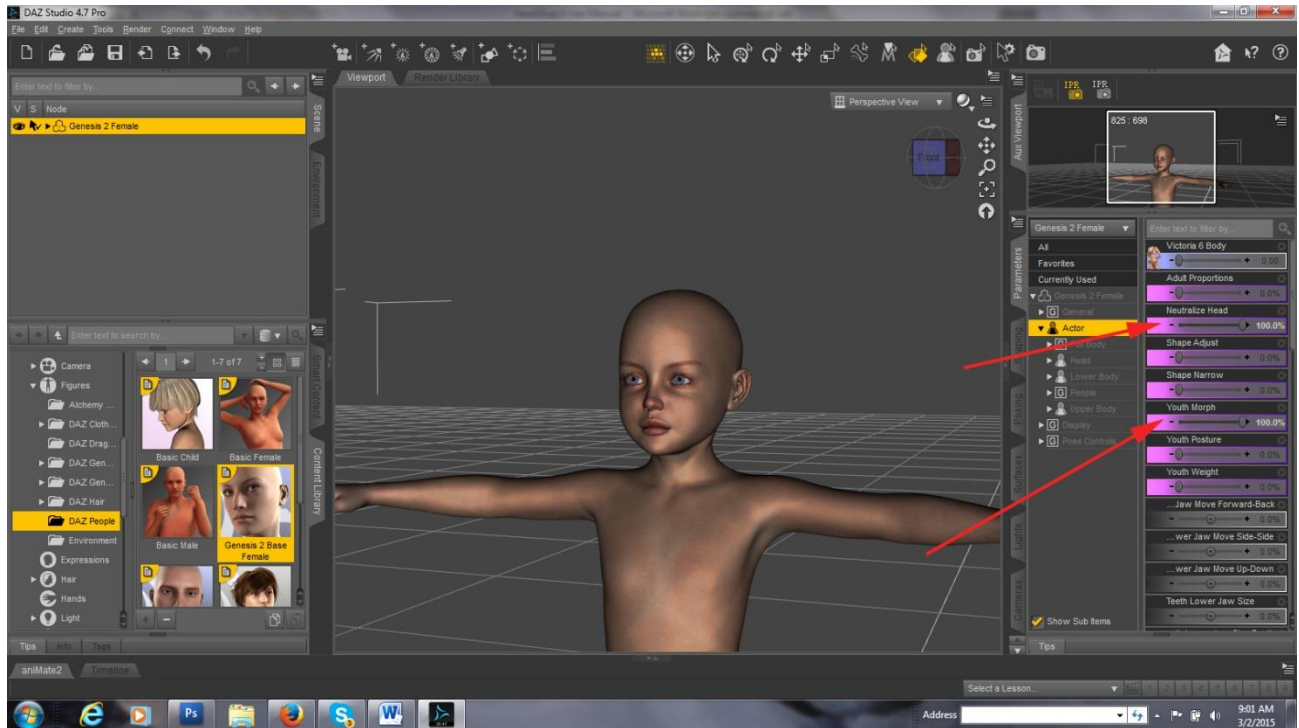


Chapter 3: Advanced Operations

In the following we offer a few hints for Advanced Operations.

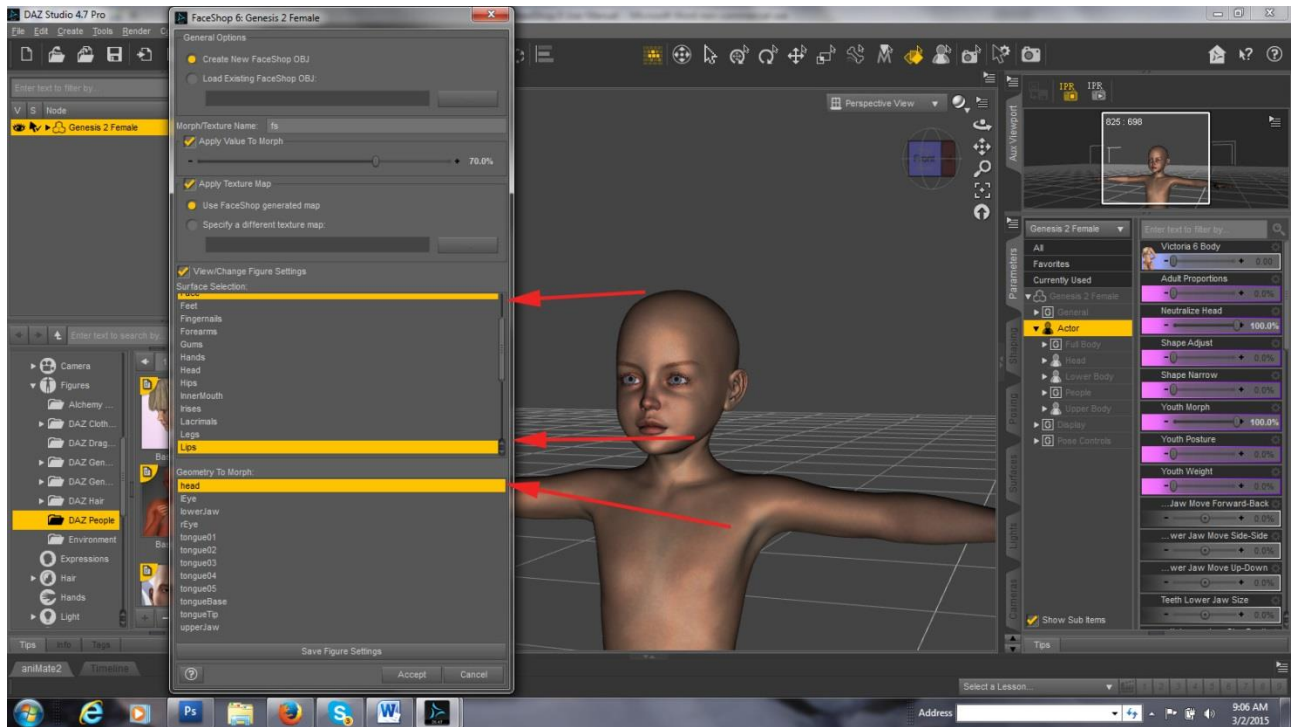
The objective is to show the use of a photo to create a 3D printable item. Let's start with putting Genesis 2 Female on stage.

Step 1.



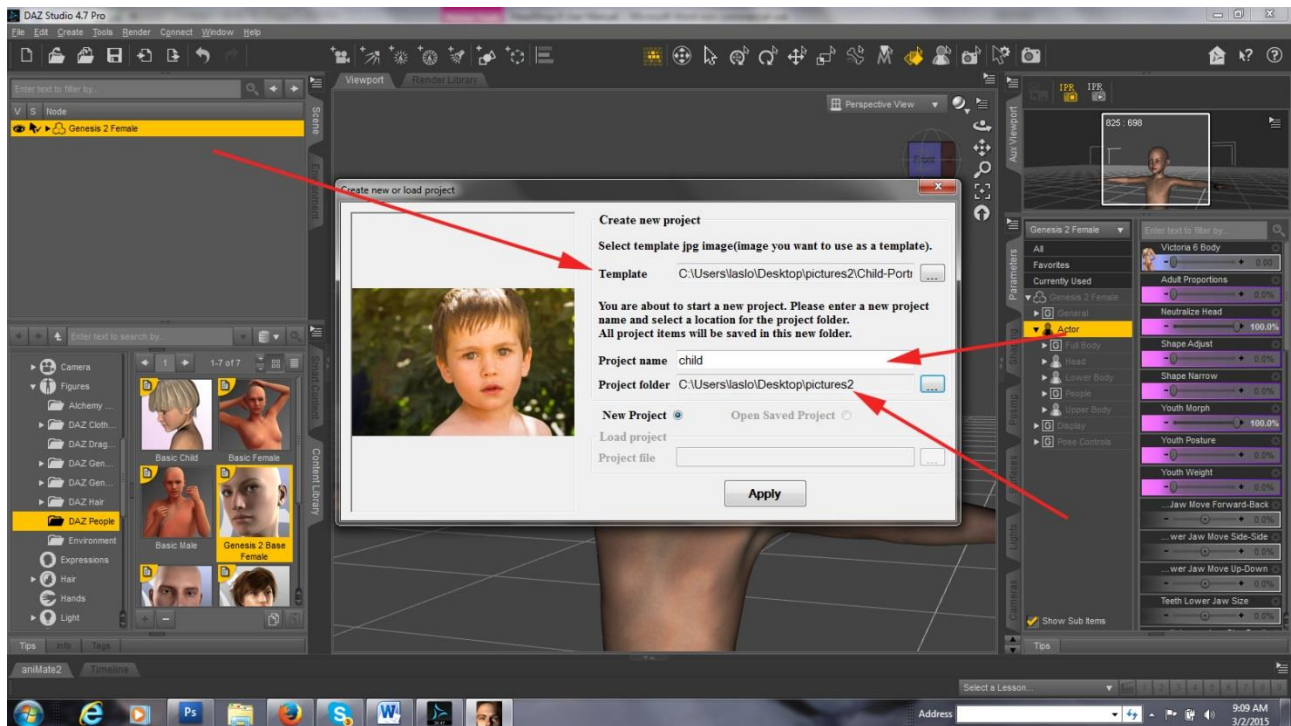
If we have „**Growing Up for Genesis2 Female(s) and V6**” installed, we can convert Gen 2 Female into a child, using the “Youth Morph” and Neutralize Head” sliders as shown.

Step 2.



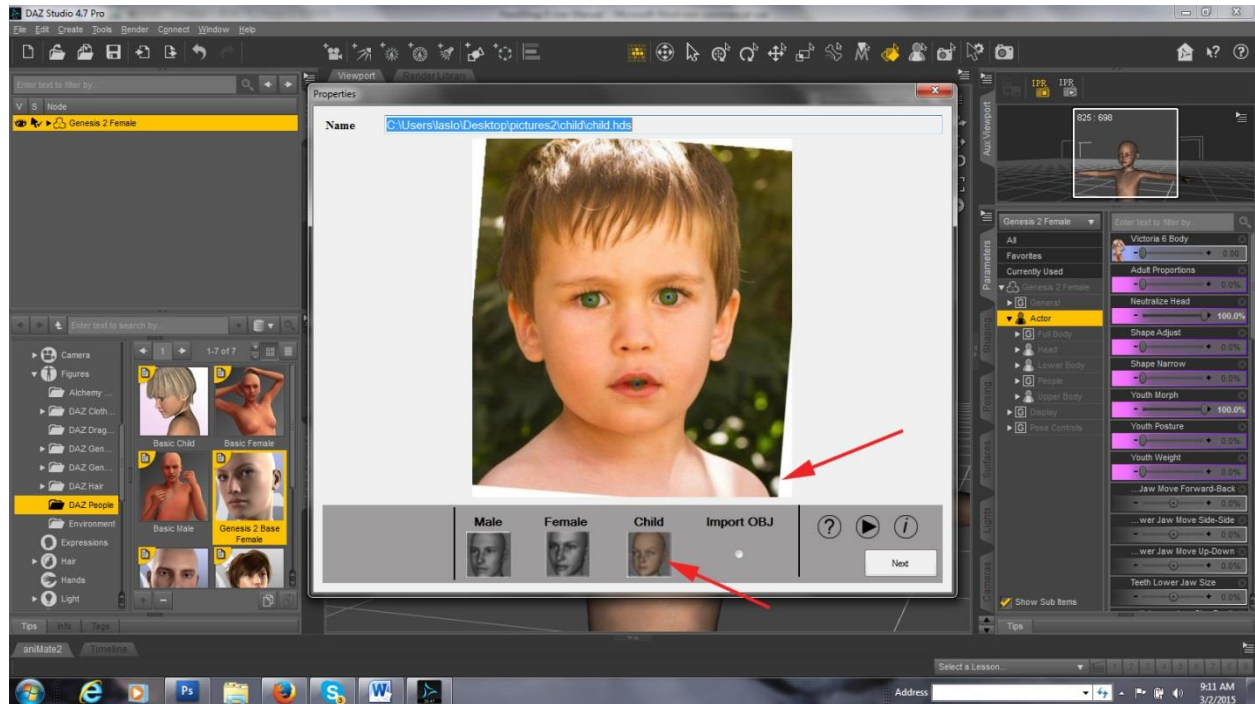
Launch HeadShop (from Edit menu). Highlight “Face” and “Lips” in the texture selection and “Head” in the Geometry selection. Click “Accept”.

Step 3.



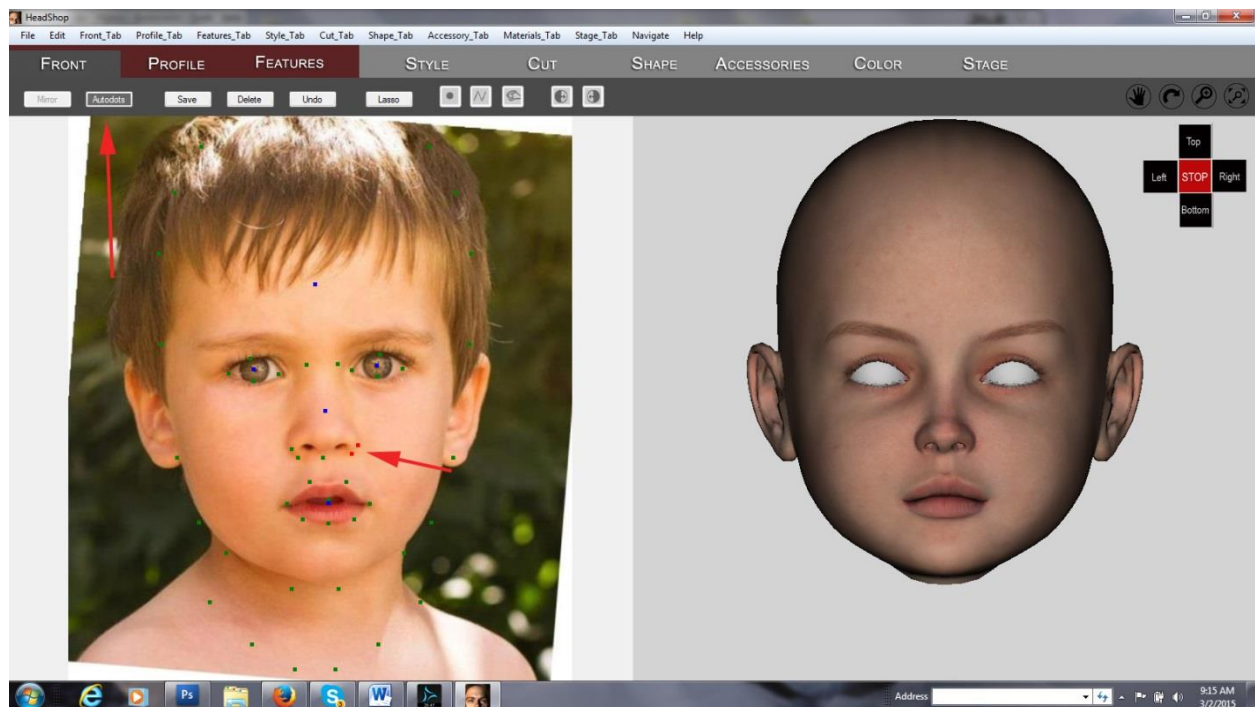
Browse for photo under „Templates”. Enter „Project Name”. Browse for „Project Folder”. Click Apply.

Step 4.



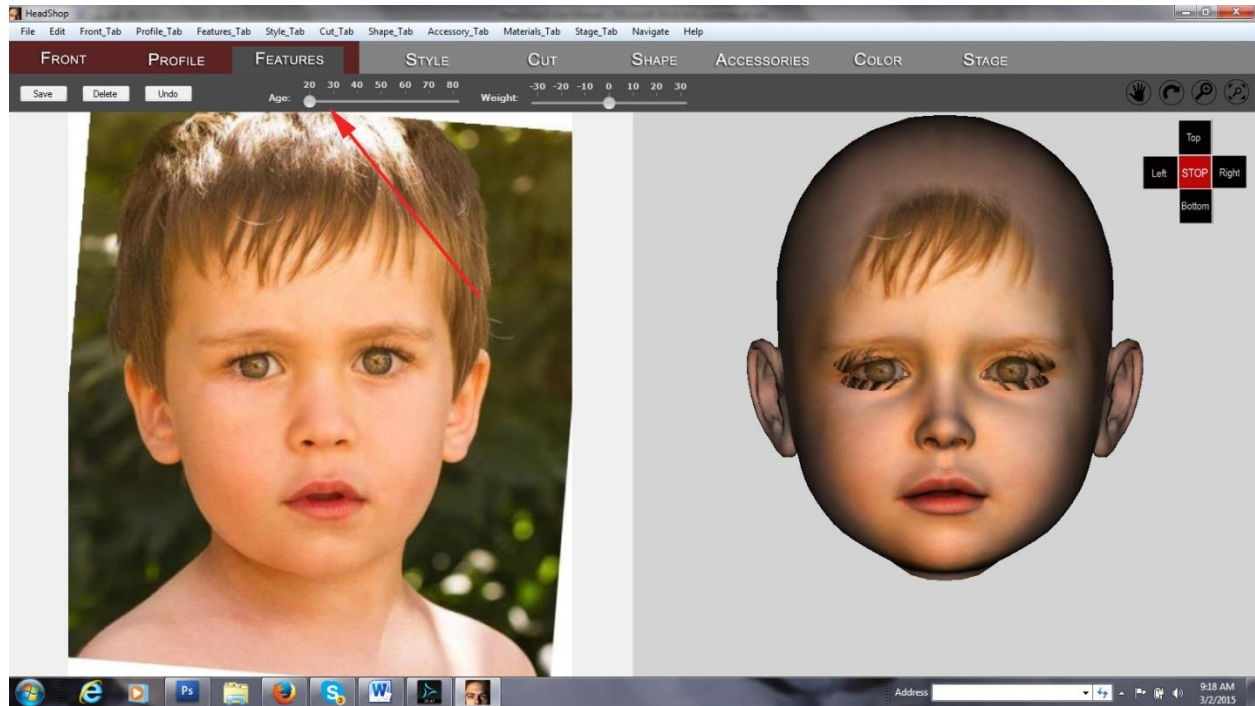
Observe that the picture has been auto-rotated into upright and eyes and mouth are auto-detected. If need to adjust any of the blue dots, drag them to the right place. Select „Child” and click „Next”

Step 5.

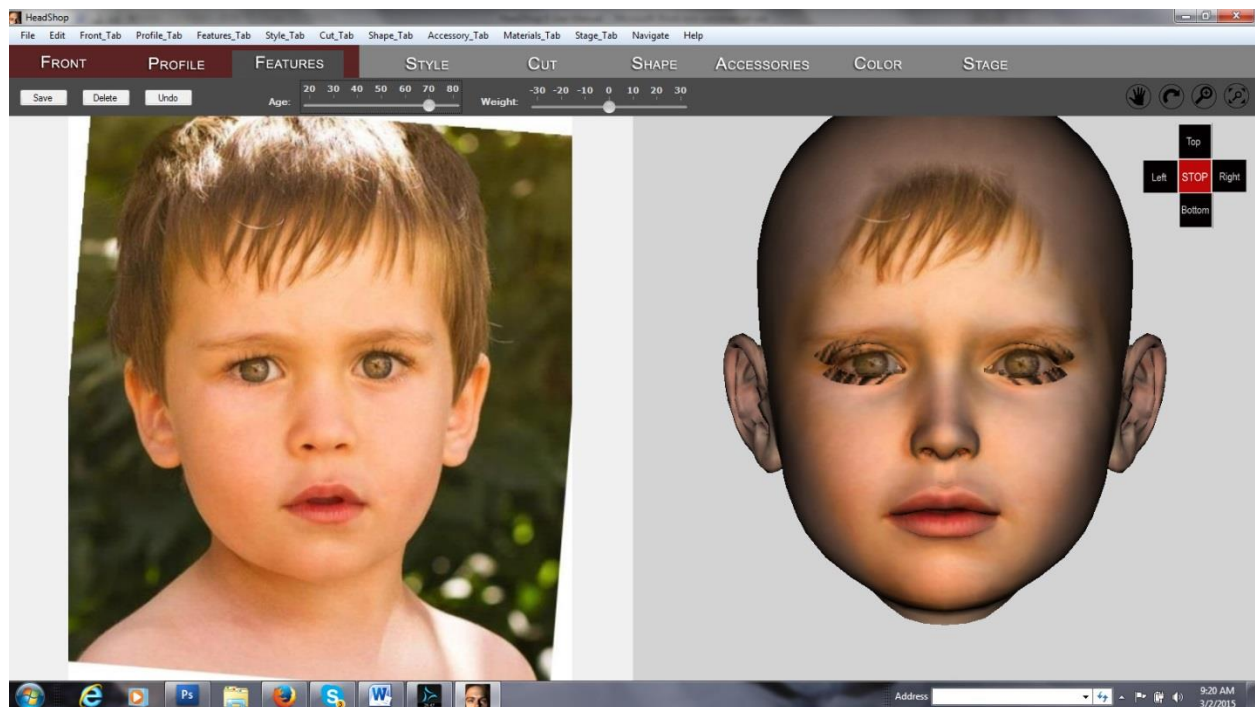


Click on „Autodots”. Adjust points as needed by dragging them (see also Chapter 1). Unlick „Autodots”

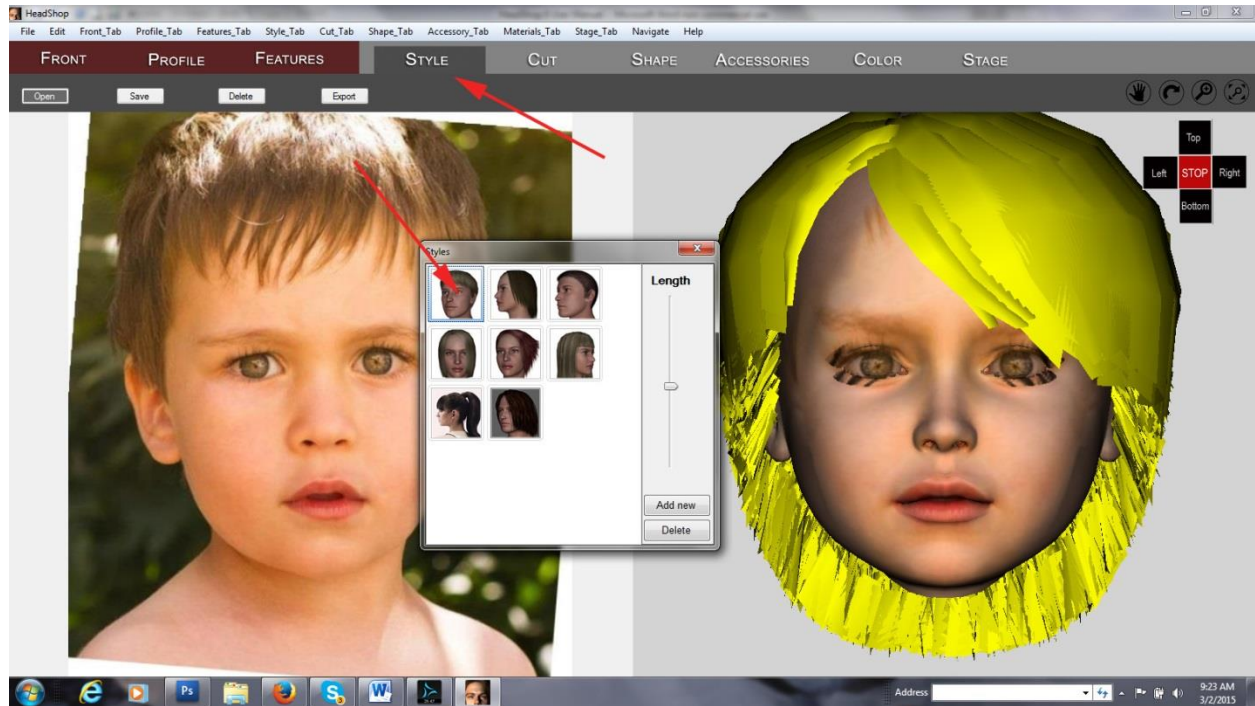
Step 6.



You can change the age of the child by advancing to the „Features Tab” and using the slider.



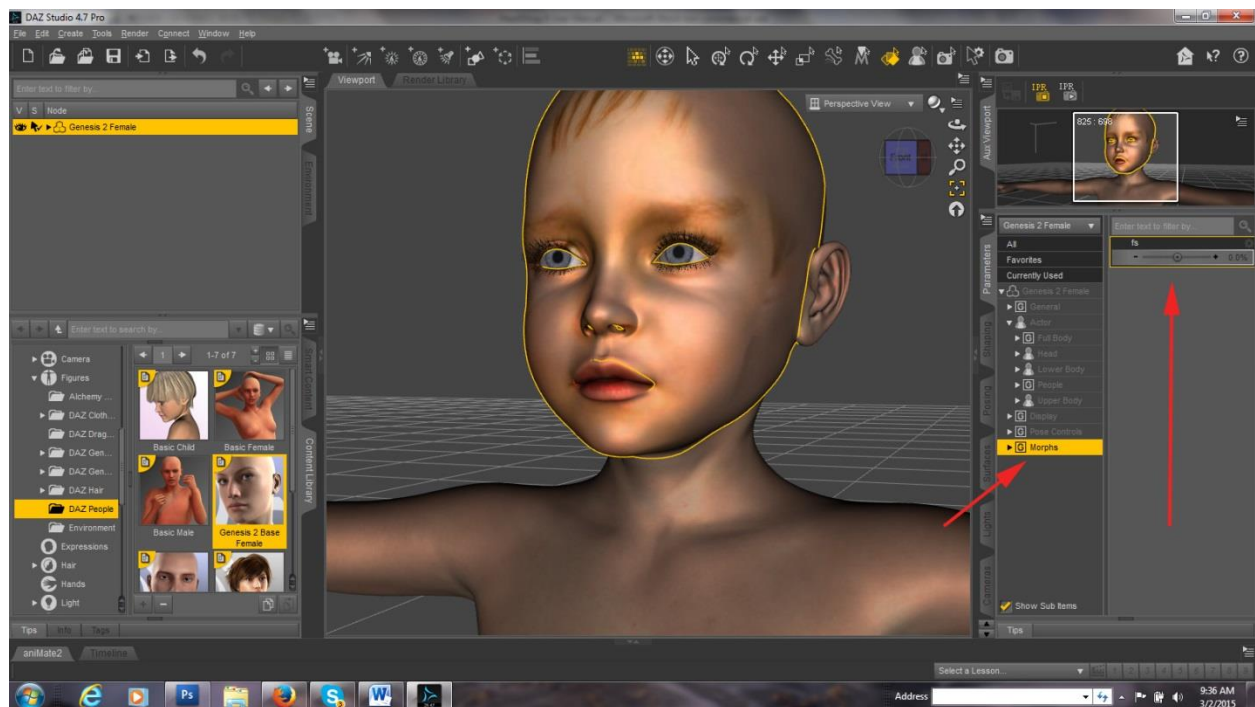
Step 7.



You can add hair to the project via the „Style Tab”. Select and drag a hair style to the right. Make sure it fits.

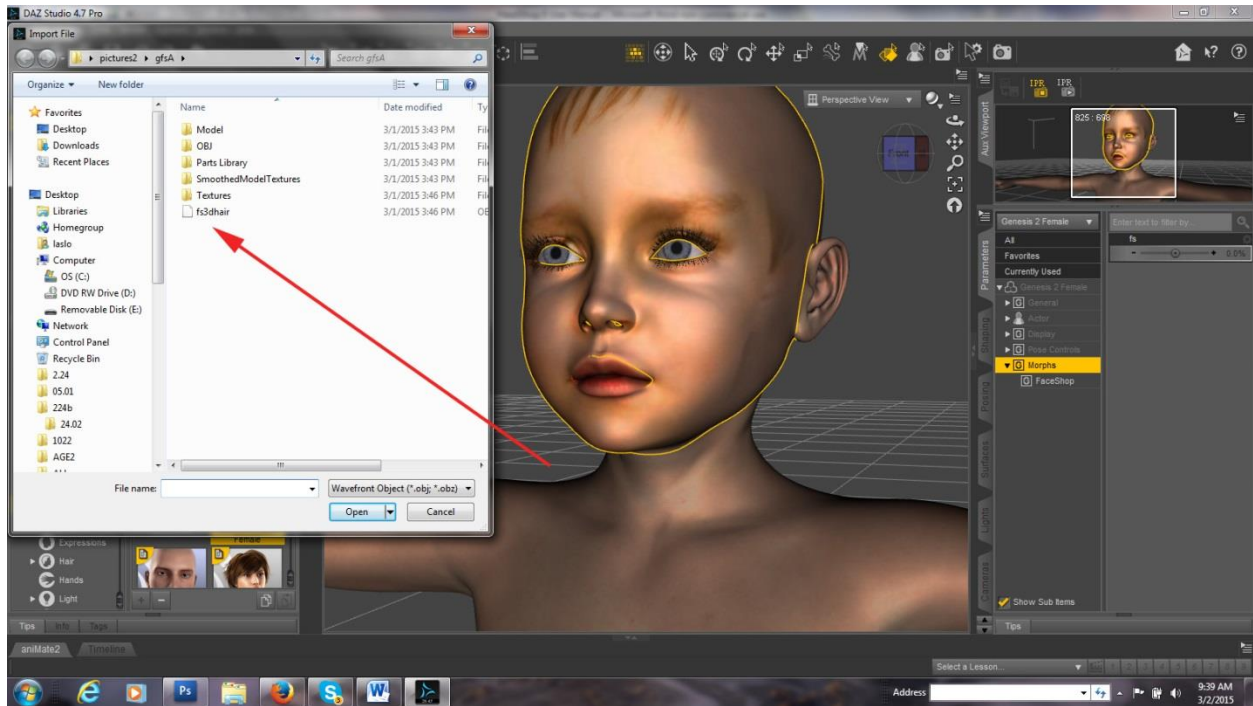
Step 8.

Export project via the „Export” button. This will close HeadShop and transfers you back into DAZ Studio.

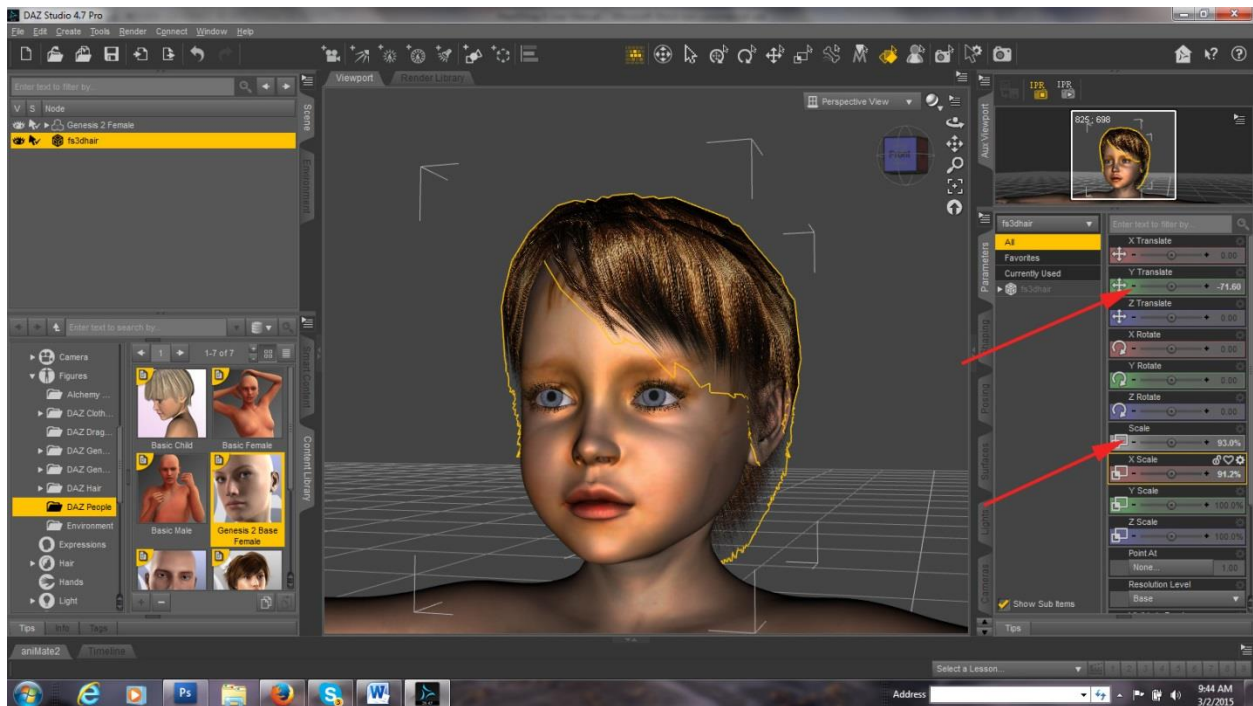


Once back in Studio, you may want to go to the Parameter tab in Studio and reset the morph's slider to „0%”.

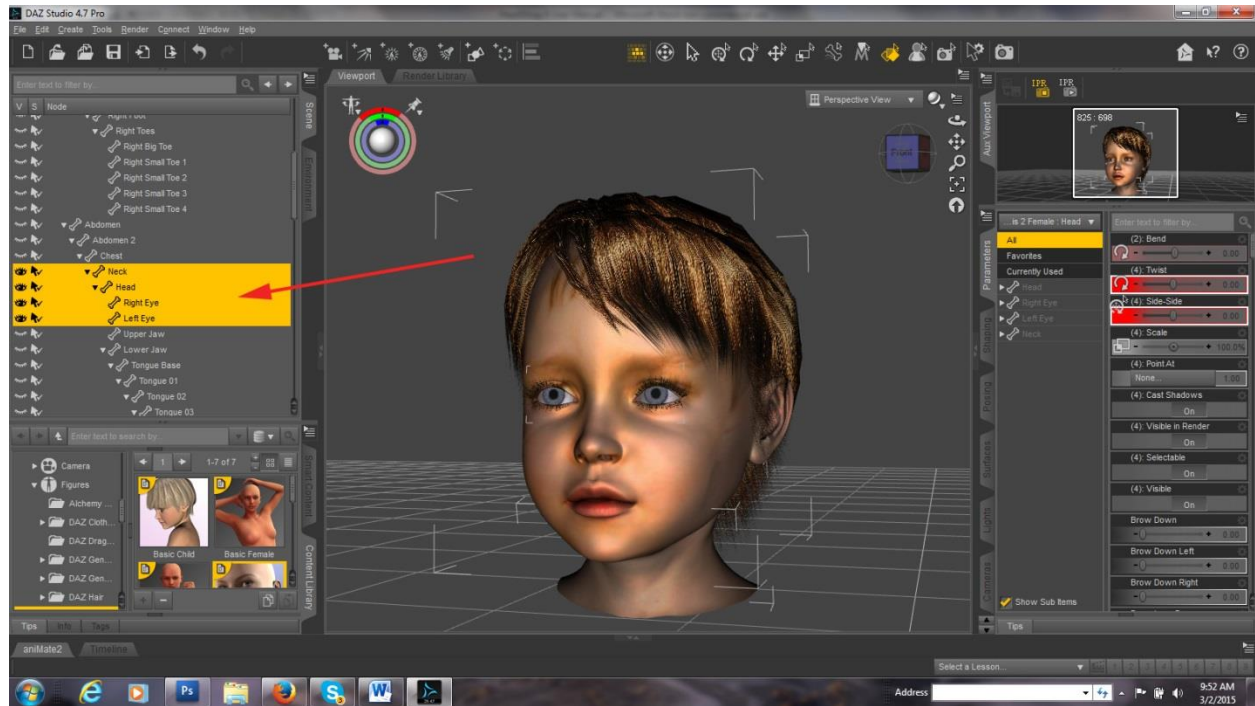
Step 9.



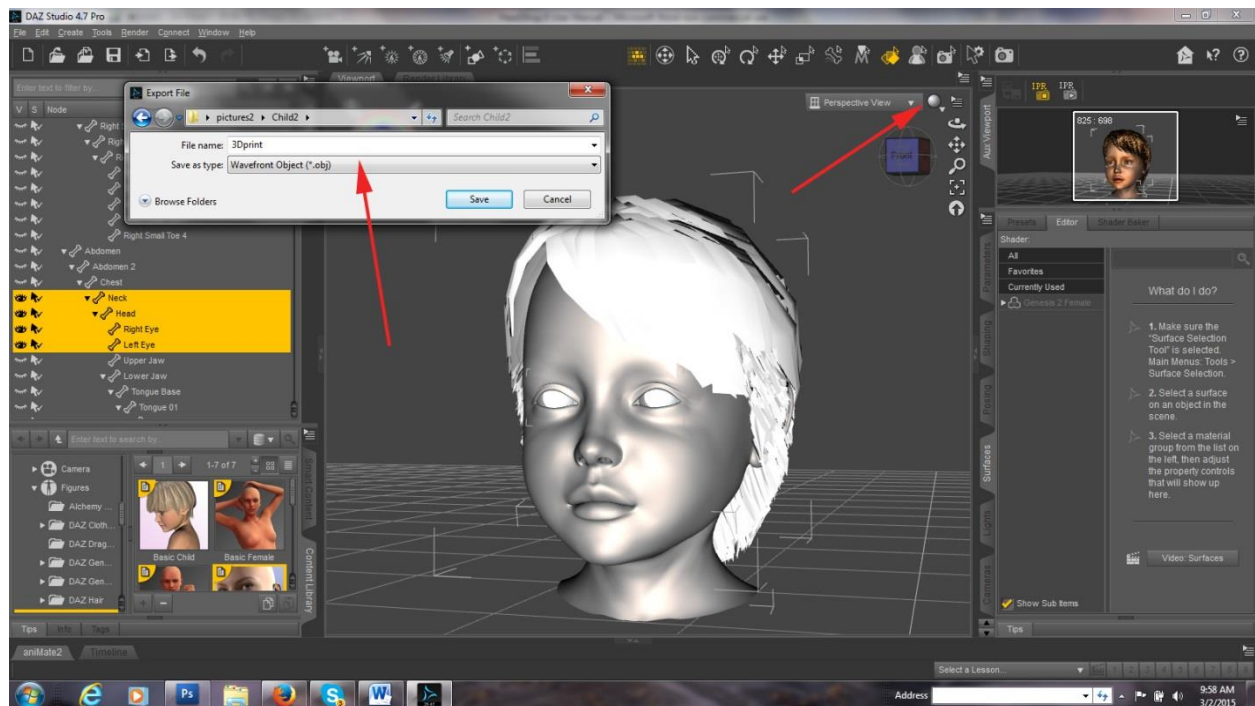
Import hair you created by using „Import” from the DAZ Studio „File” menu. Browse to the project file and click on the „fs3dhair” file. This will bring the hair also into DAZ Studio. Make sure you move the hair up and down into position. If needs to be, also use „scale” to get it just right.



Step 10.



Now you can turn off visibility (eye symbol) to all parts of Genesis 2 except for „Neck”, „Head” „Right Eye” and „Left Eye”. Also, you can preview your 3D sculpture by resetting the view from „Texture Shaded” to „Smooth Shaded” via the visibility ball.

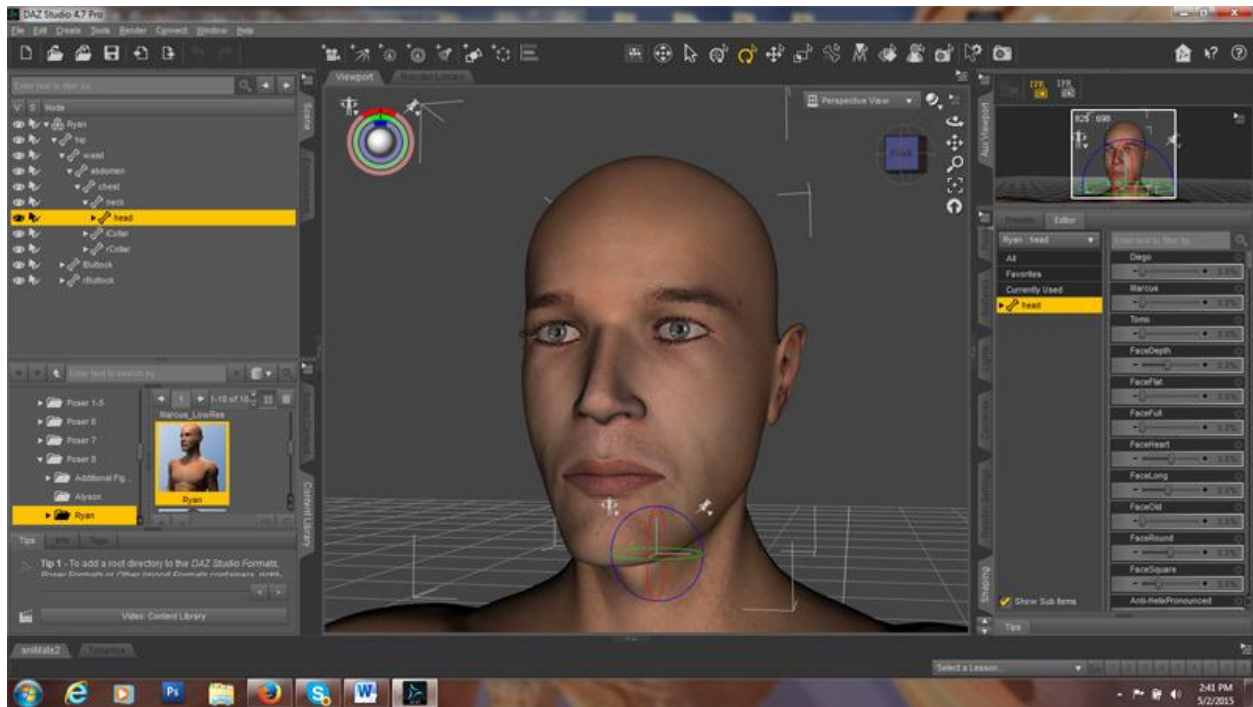


If you know hit „Export” under the File menu and choose „Export OBJ”, you just saved your head as something a service bureau can print using a 3D printer. (Note: not all service bureaus are equipped to convert OBJ files into STL).

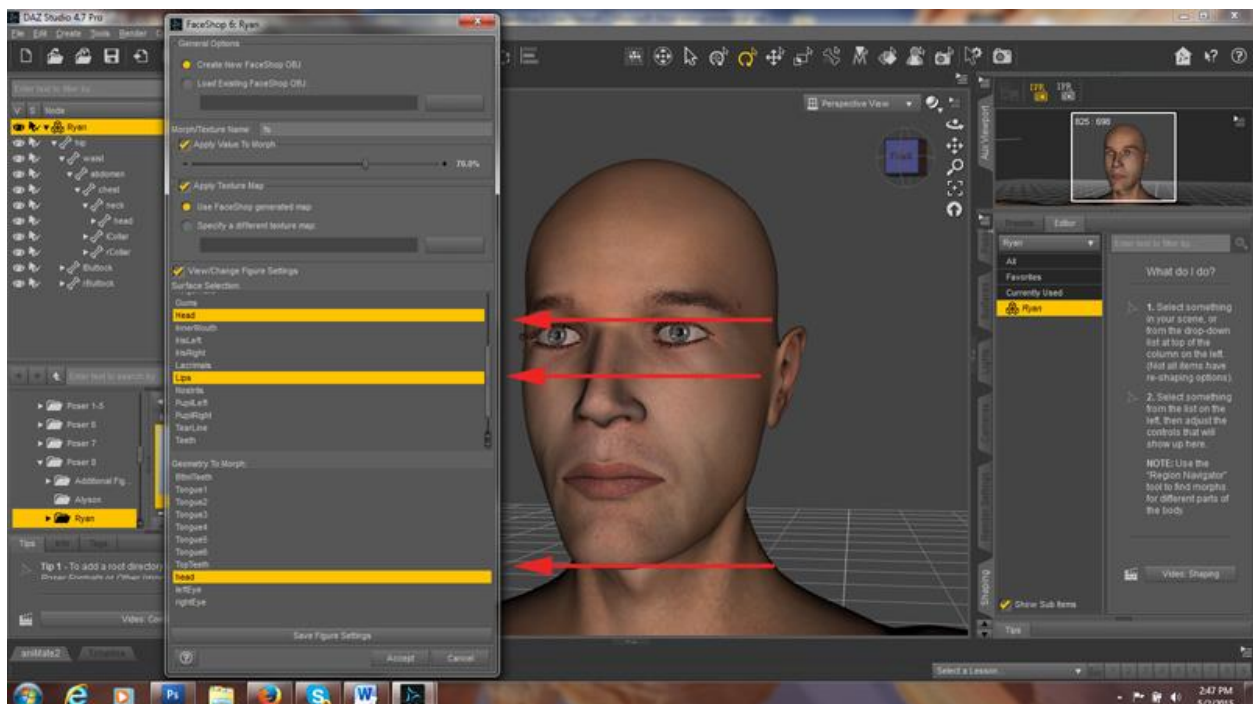
Chapter 4 : Using Poser Figures

Unlike previous FaceShop products HeadShop is NOT DESIGNED TO BE USED AS A STANDALONE. You can still use Poser or other figures but must do so in DAZ Studio.

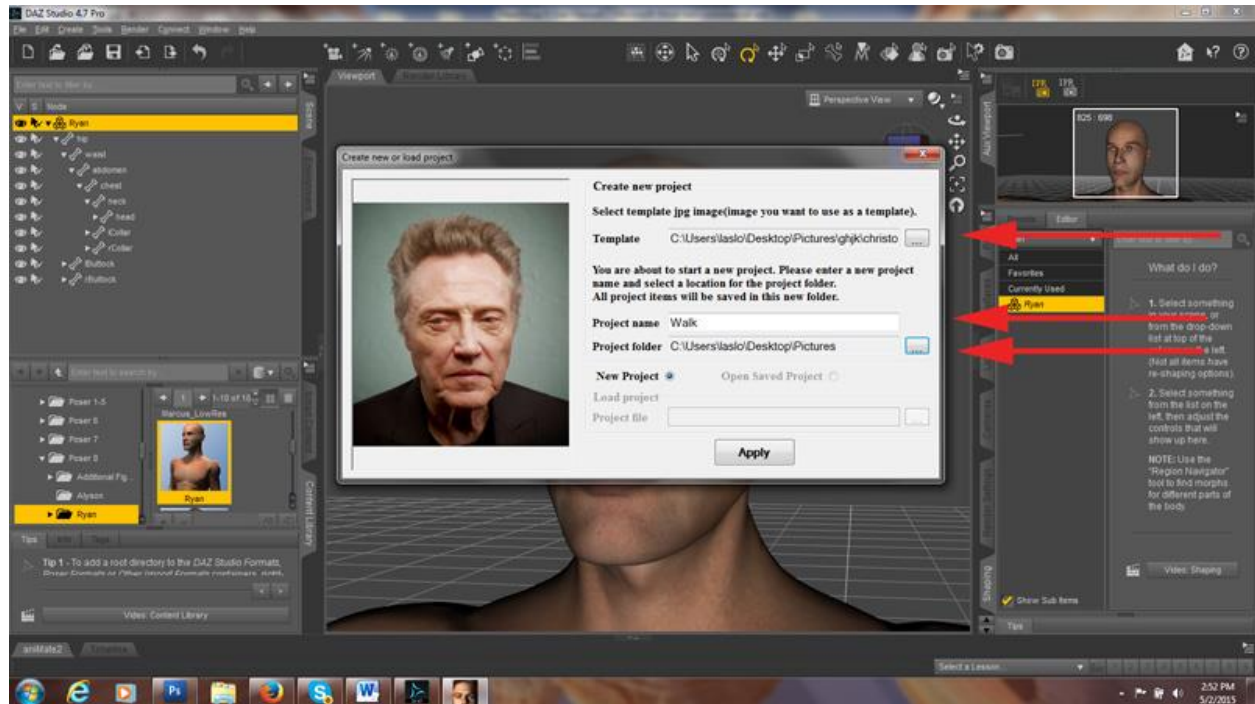
Step 1. Place a Poser figure on stage in DAZ Studio (shown is Ryan from Poser 8).



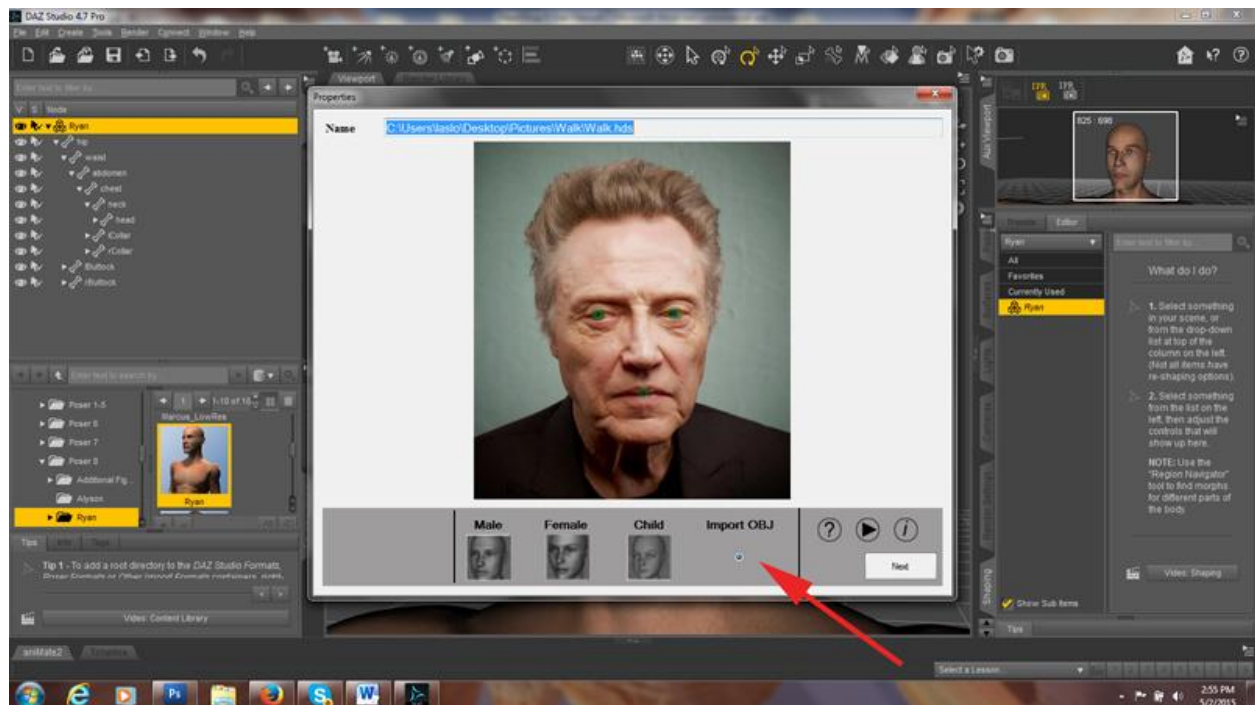
Step 2. Launch HeadShop from DAZ Studio's Edit menu. When prompted, select „Head” and „Lips” for surfaces and „Head” for Geometry. Click „Accept”.



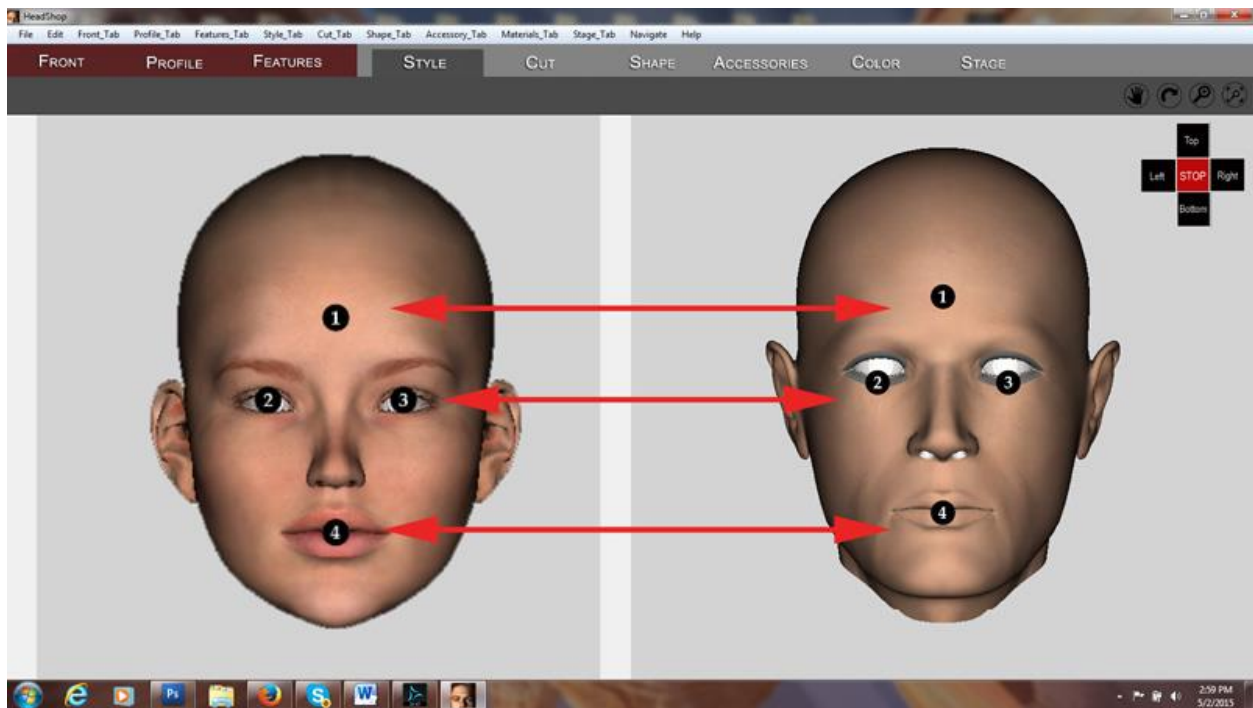
Step 3. Browse for photo and create project name and project folder. Hit „Apply”.



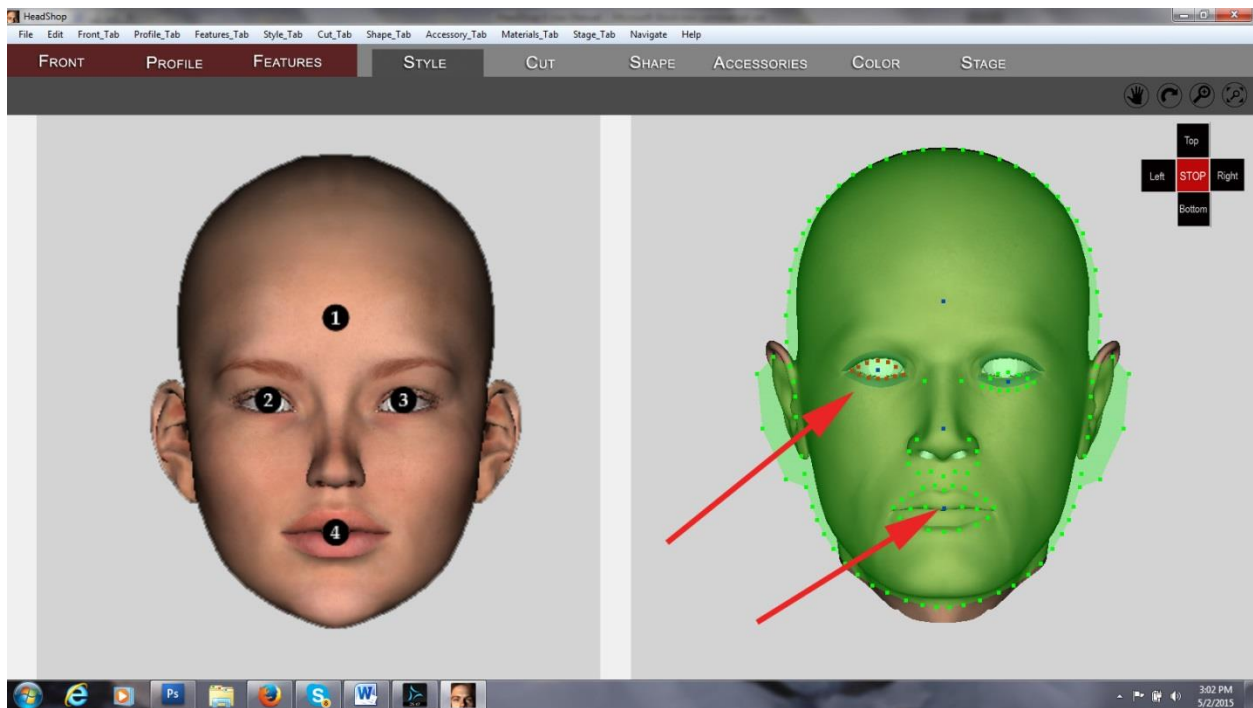
Step 4. Make sure eye and mouth dots are correctly placed by auto-face. Unlike with Genesis 2 figures, select „Import OBJ” and hit „Apply”.



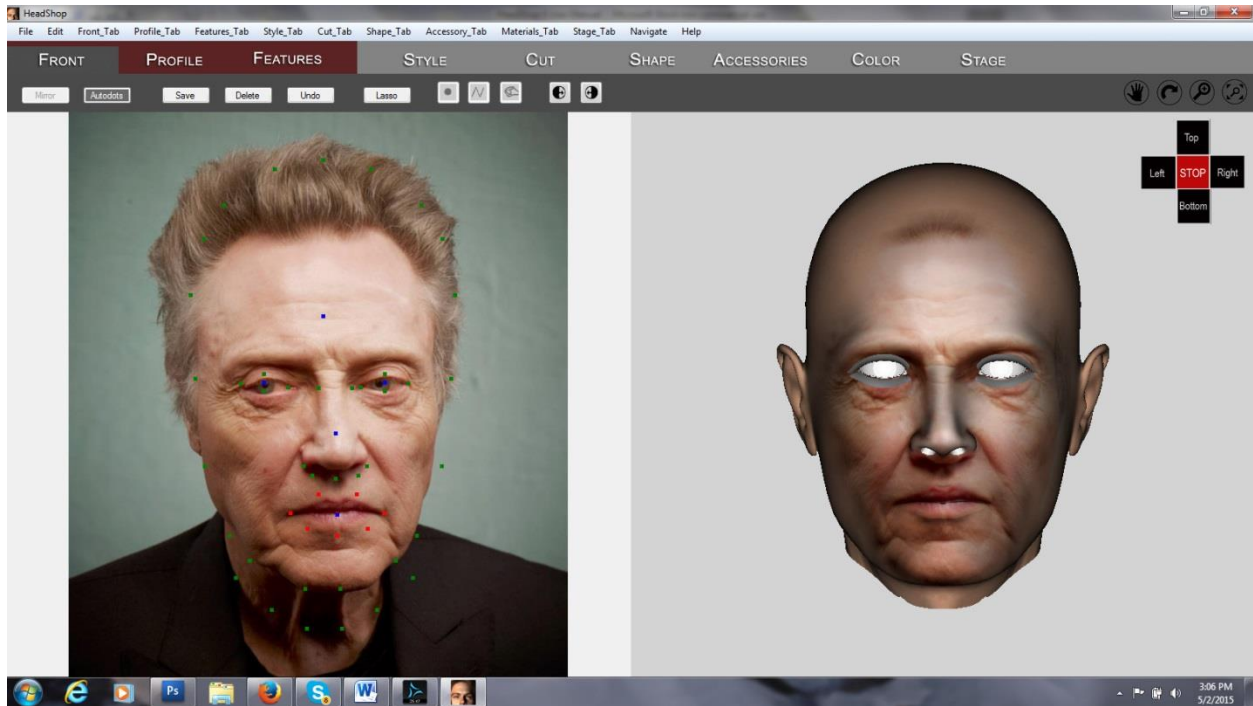
Step 5. In the HeadShop Front Tab you will be prompted to click on 4 points on the RIGHT screen as shown on the left. Hit Enter.



Step 6. A green overlay appears on the RIGHT screen. Adjust the group of points (eyes, nose, mouth and head outline) using the blue „group control” dots. When done, hit „Enter”



Step 7. From here on use the same steps as outlined in Chapter 1, 2 and 3.



Step 8. Once you are satisfied with the model, select „Export” from under the „File” menu and this will close HeadShop and will carry the morph and texture back to DAZ Studio. You can save the new model in a Poser compatible format and open it in Poser.